

FIG. 1

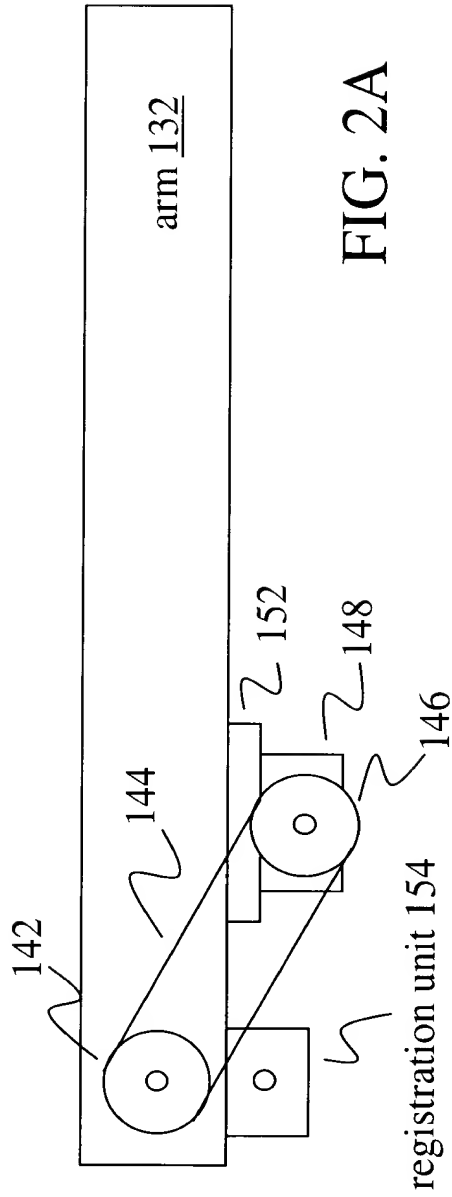
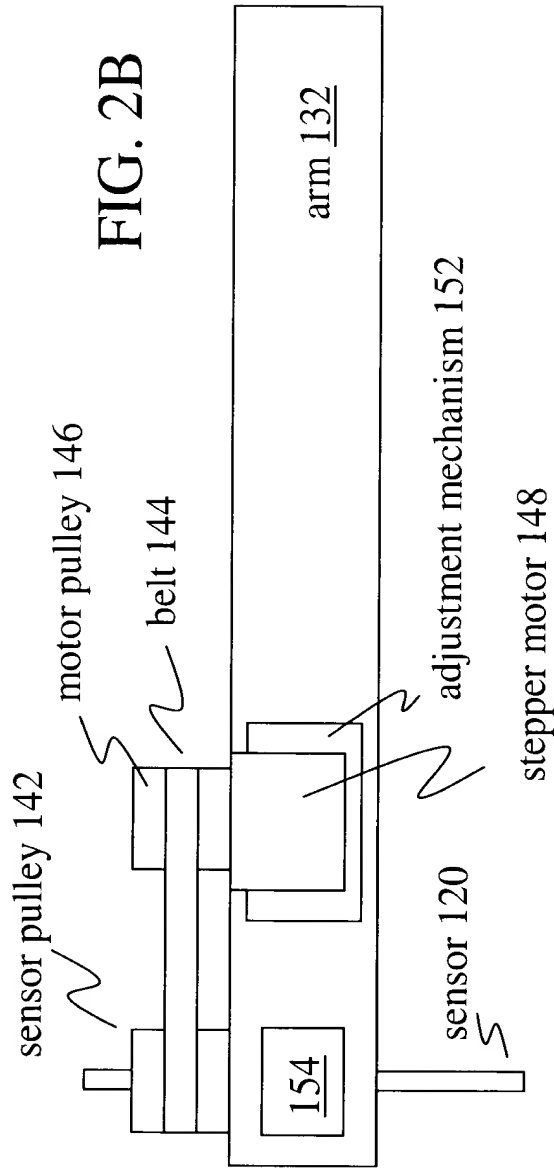


FIG. 2B



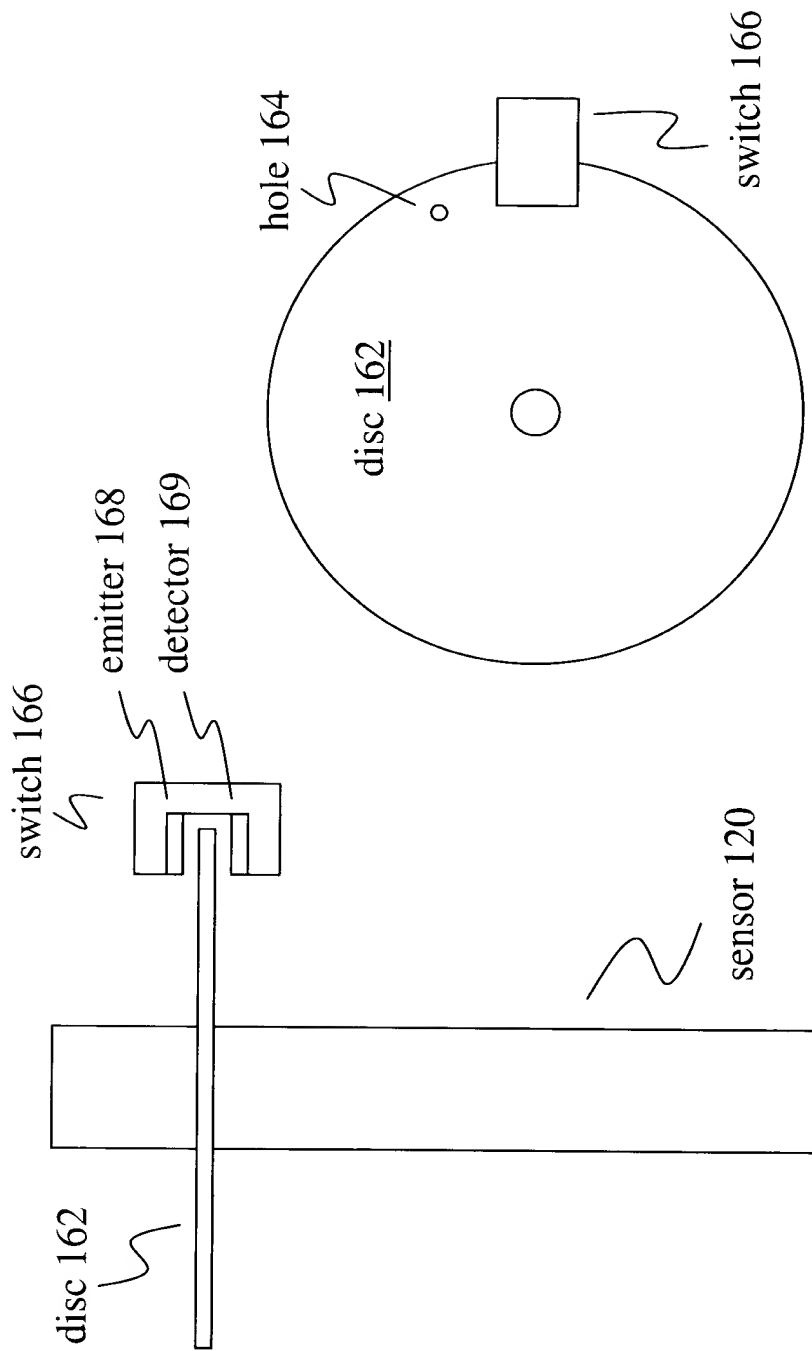


FIG. 3A

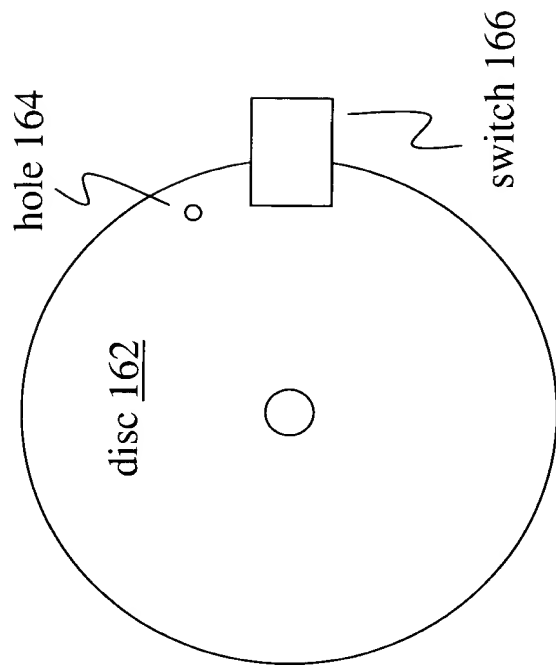


FIG. 3B

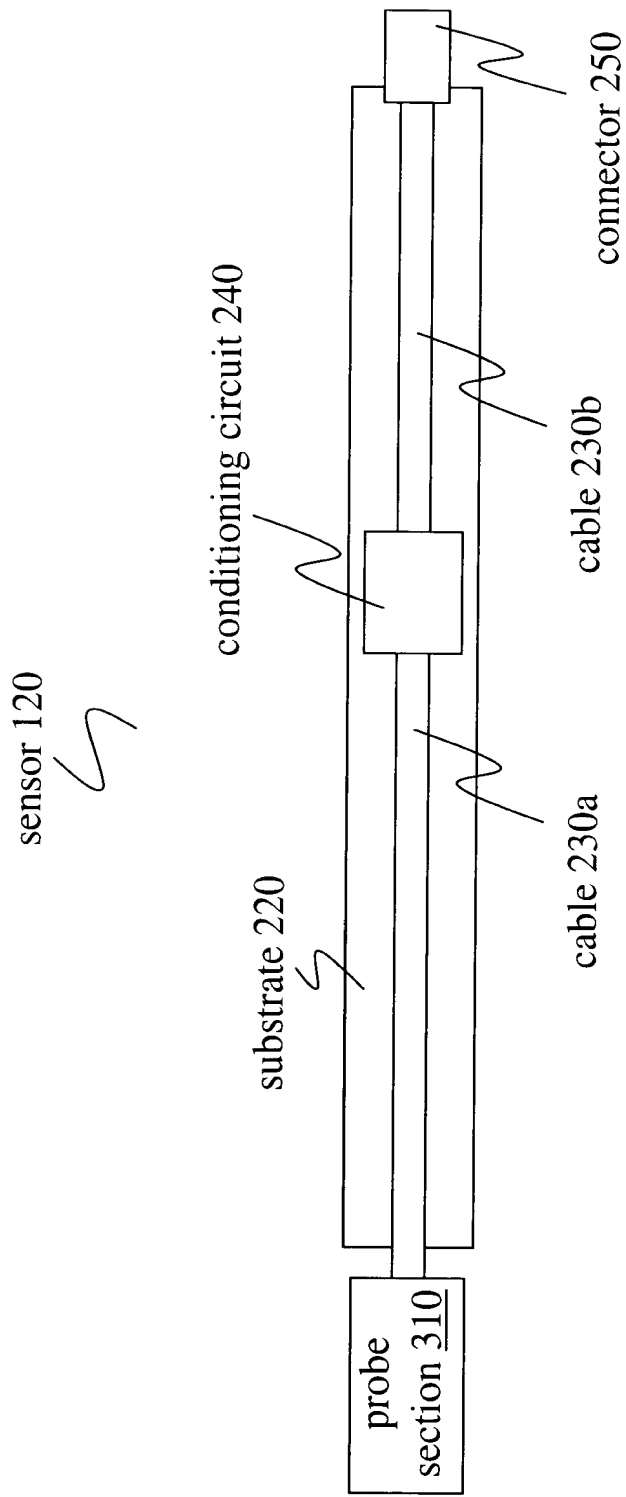


FIG. 4

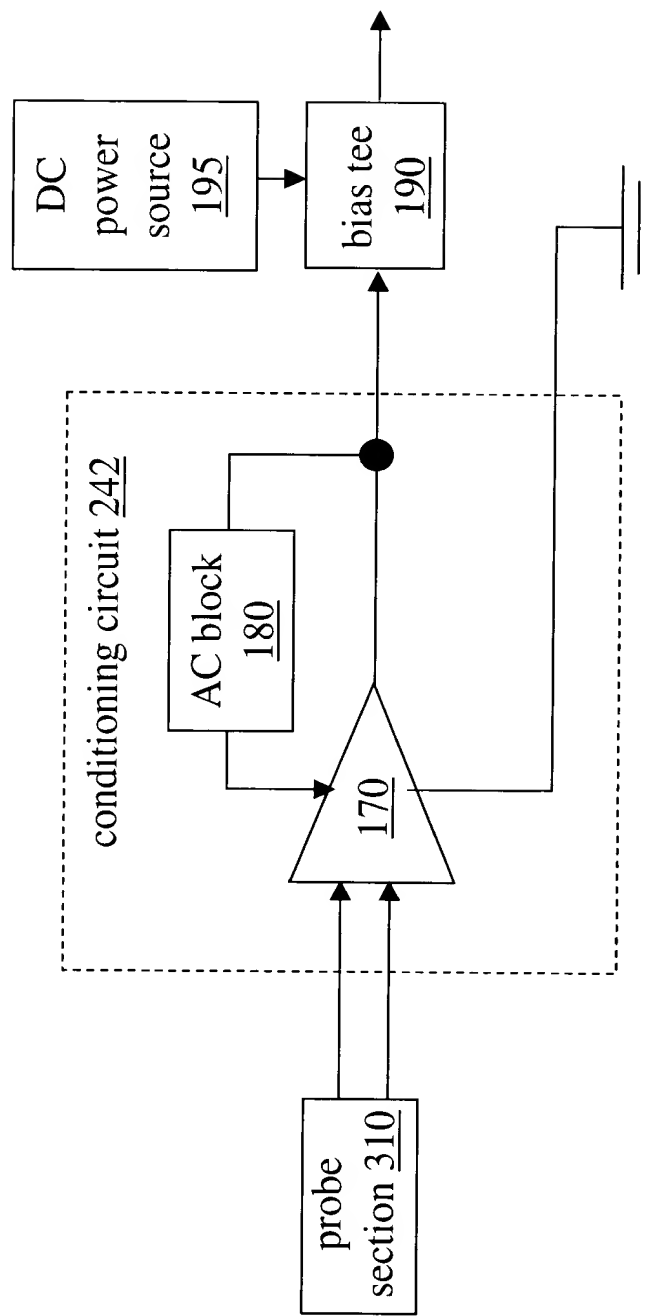


FIG. 5

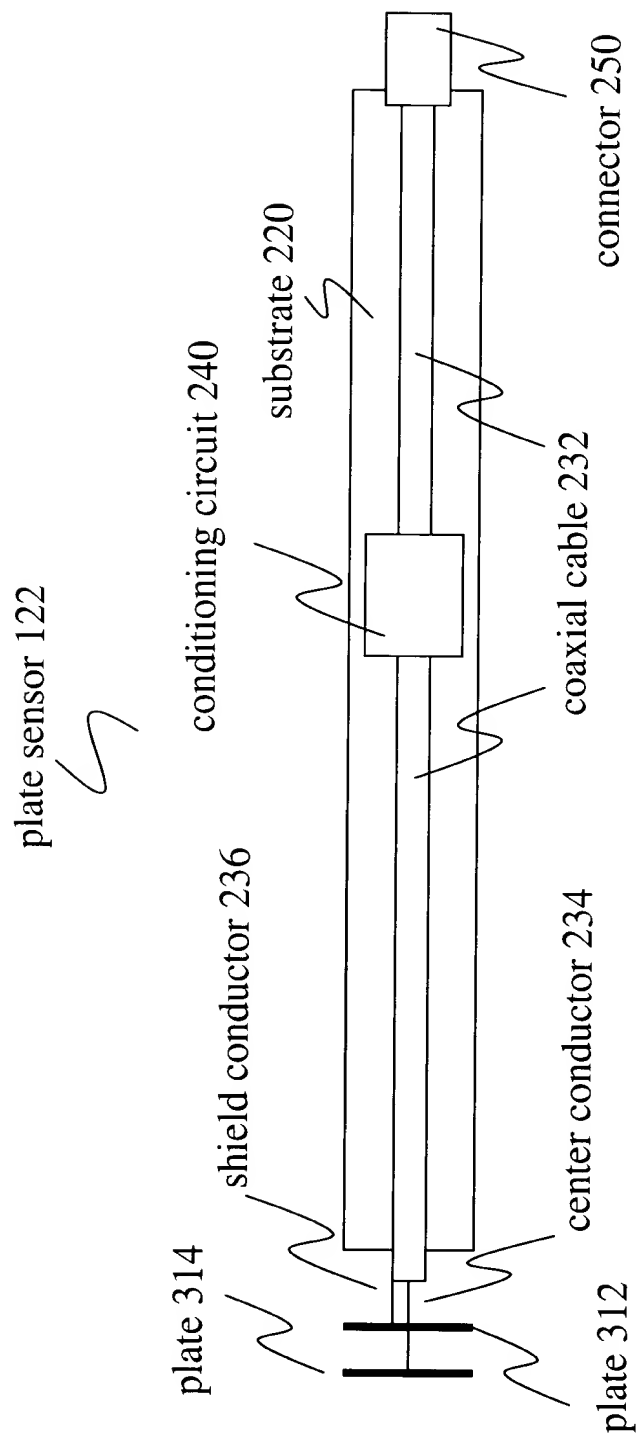


FIG. 6

FIG. 7A

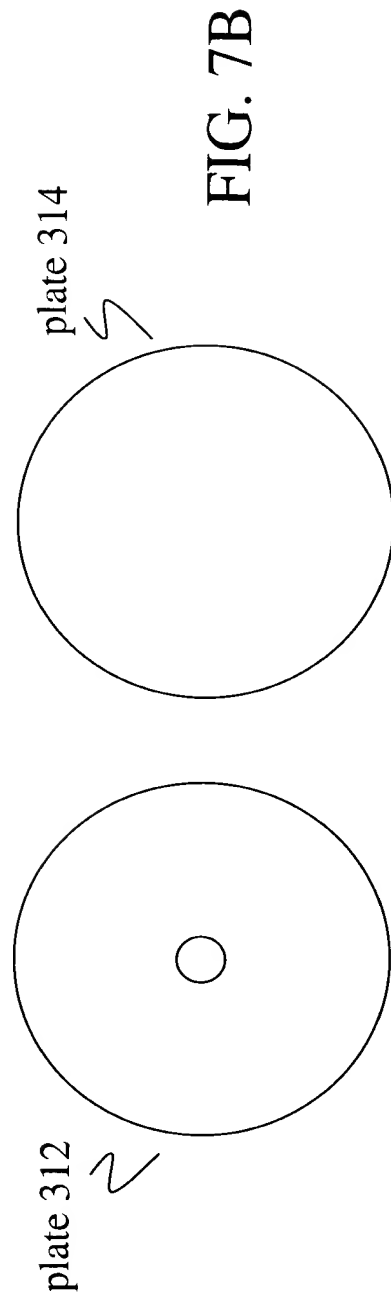
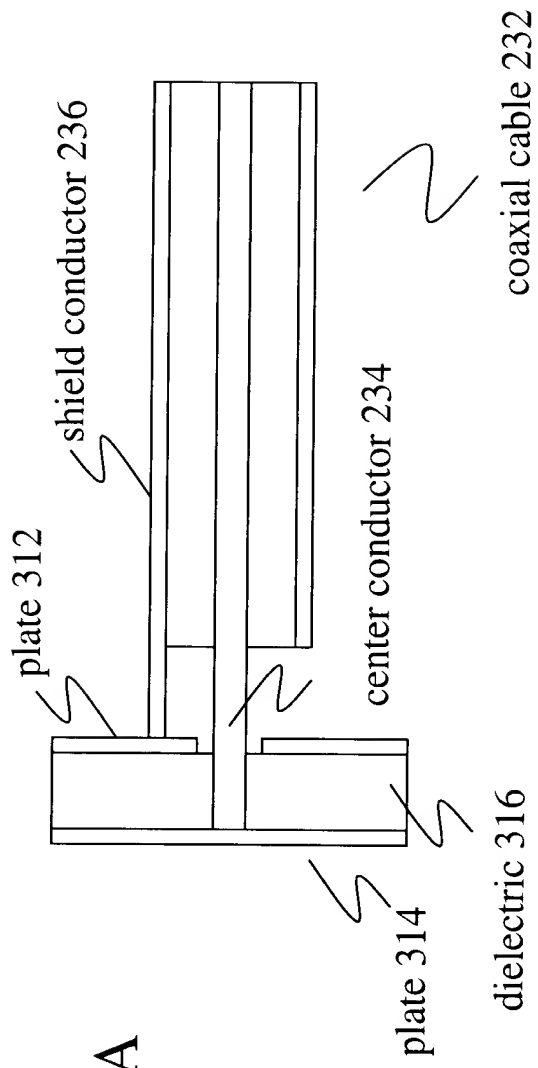


FIG. 7B

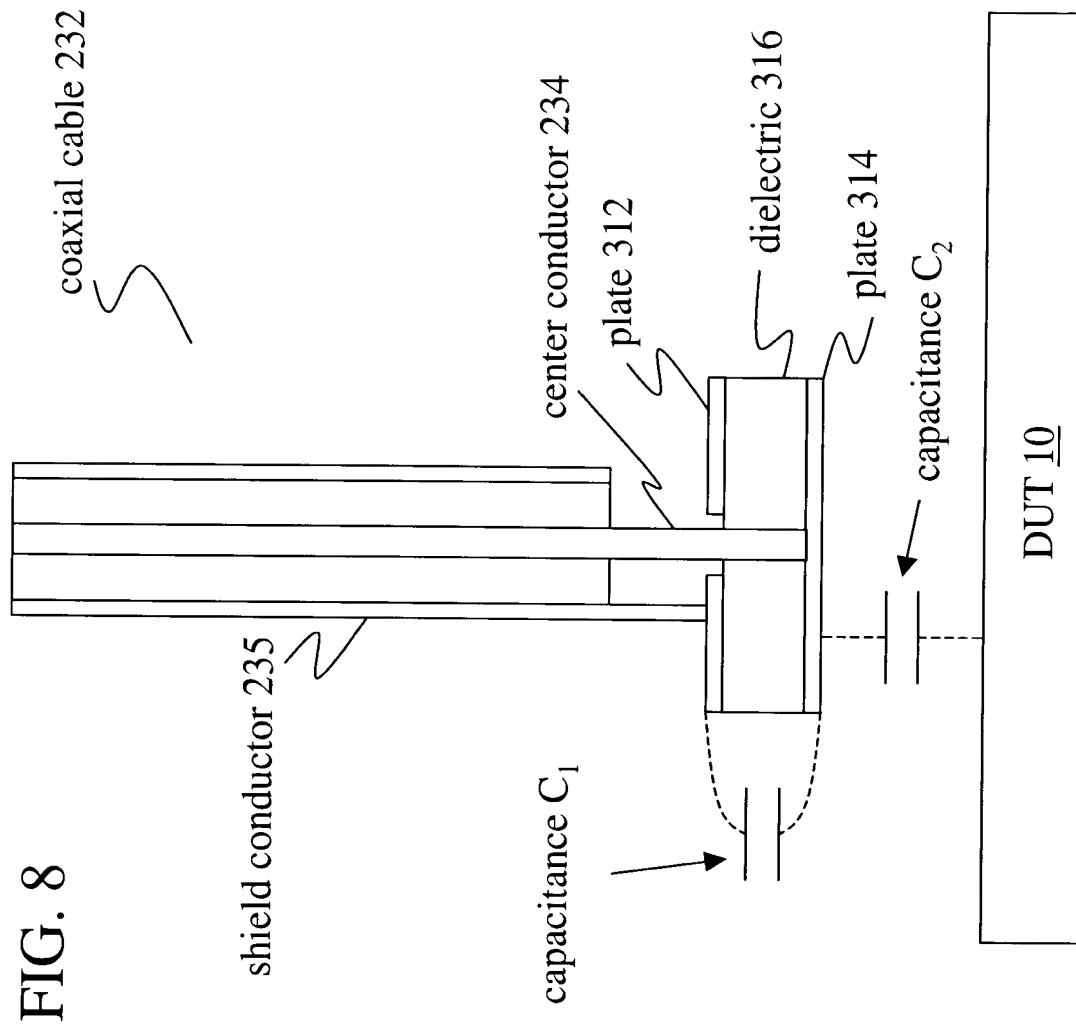


FIG. 9A

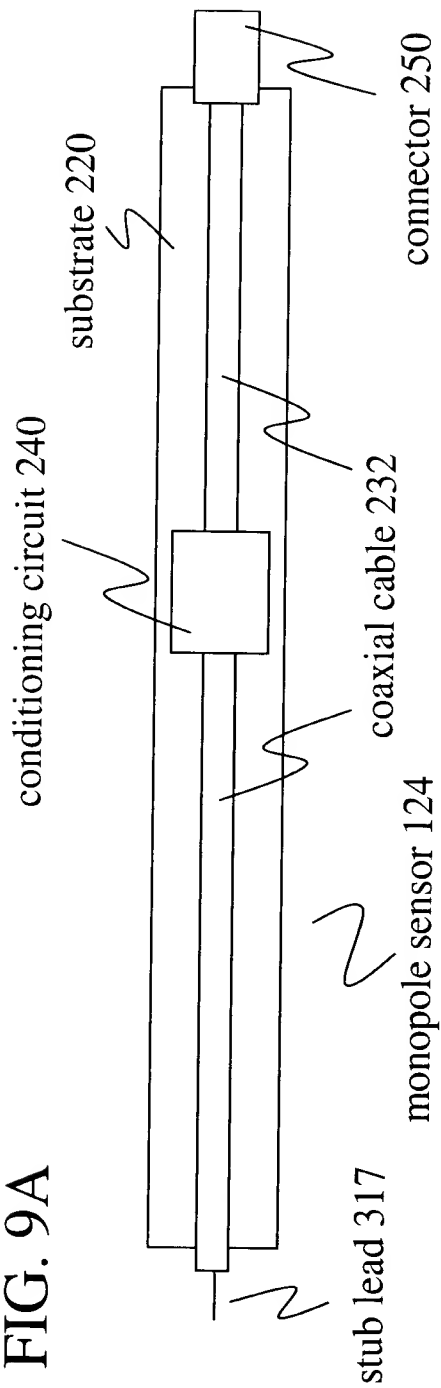
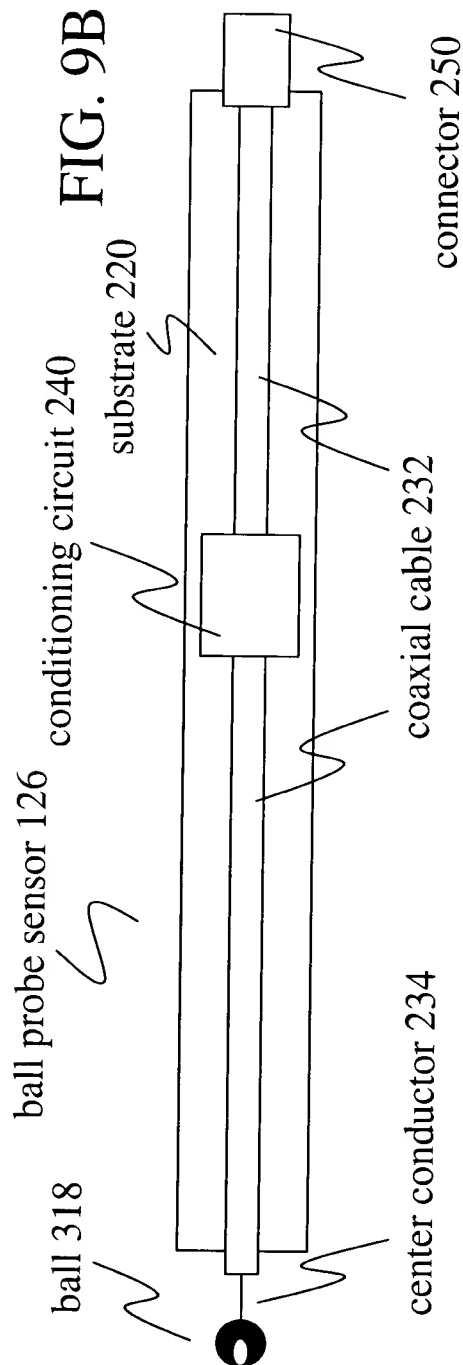
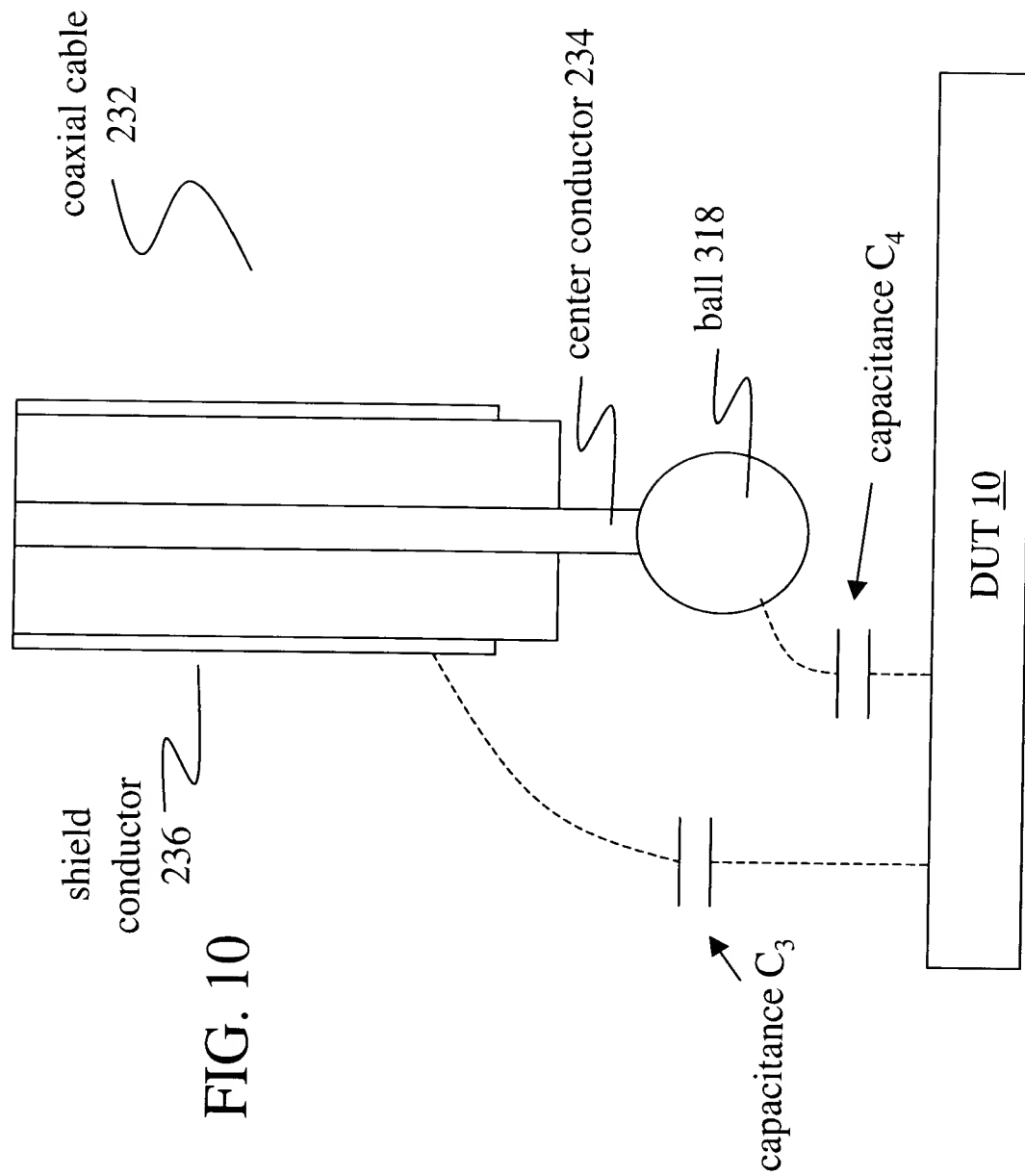


FIG. 9B





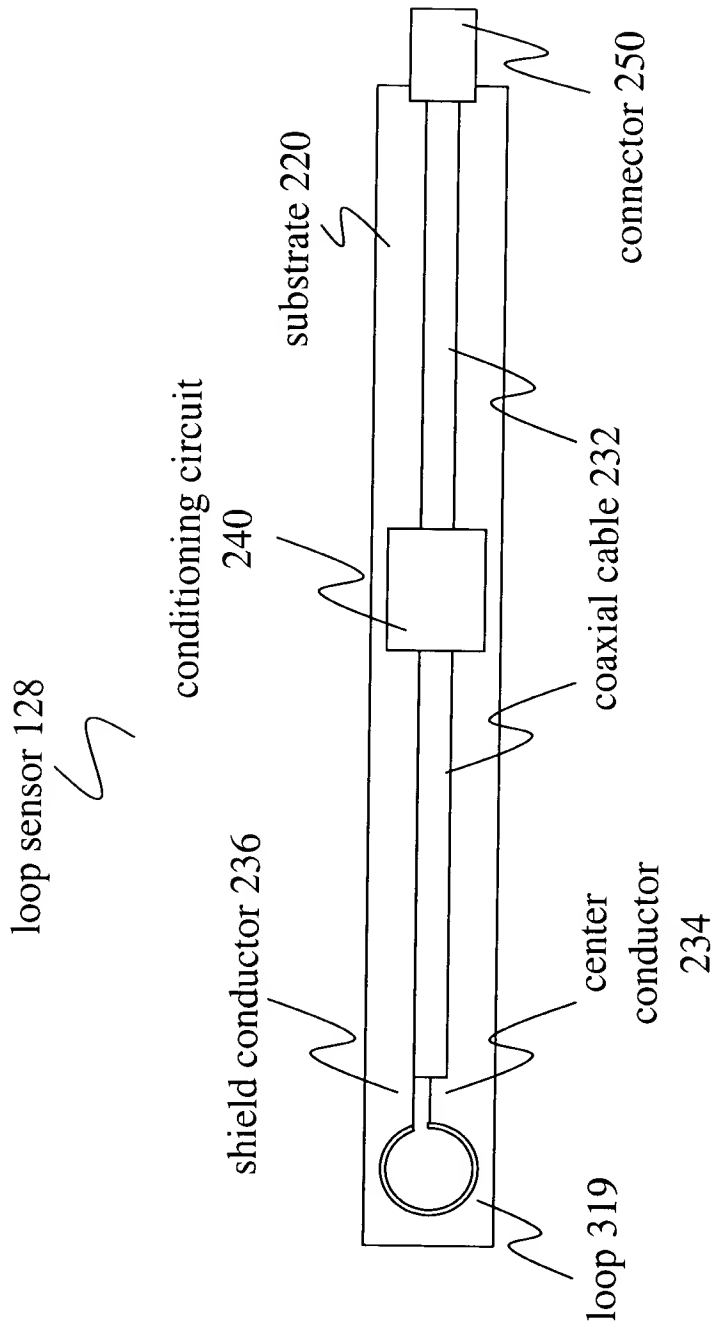


FIG. 11

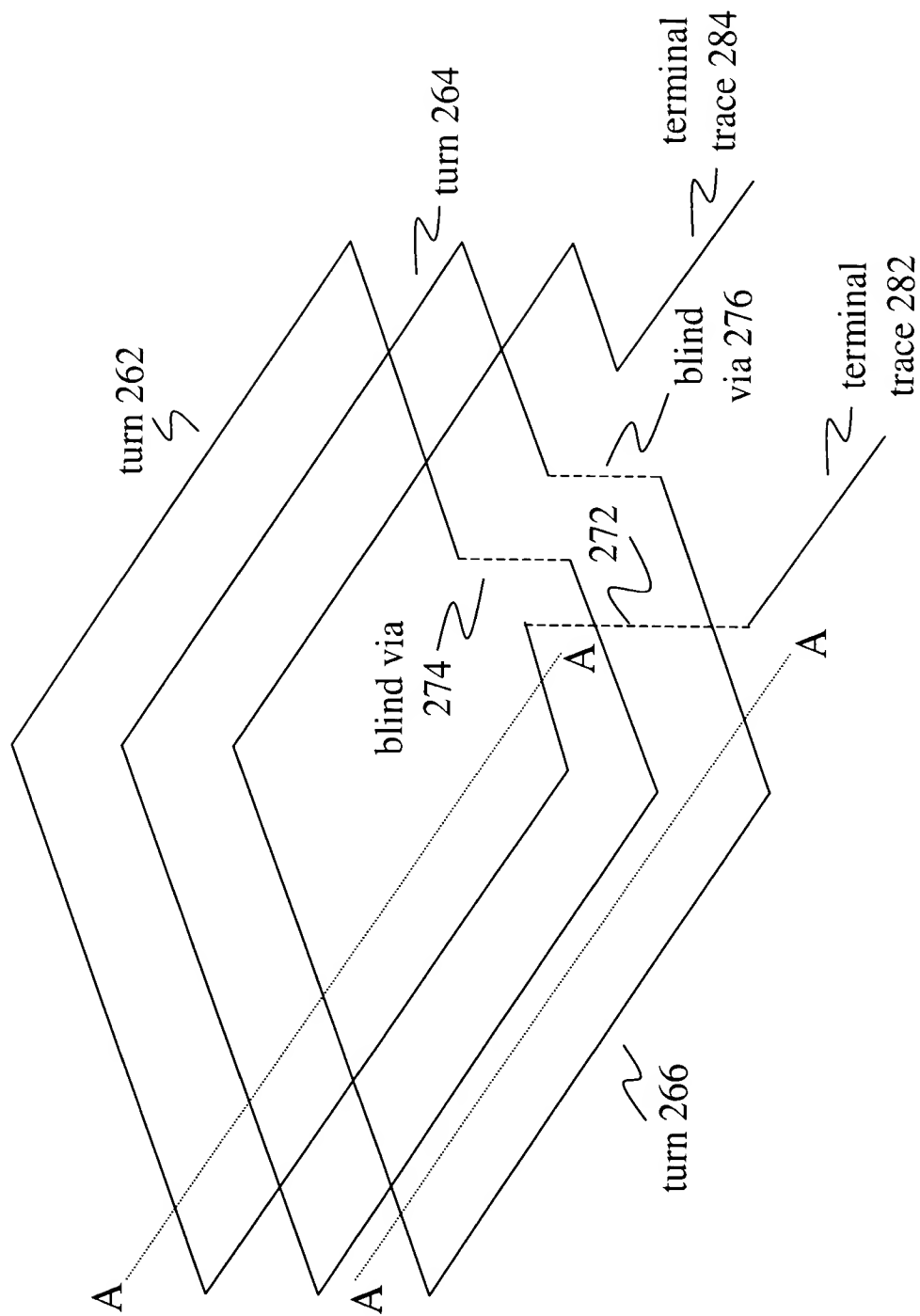


FIG. 12

interlayer insulator 290

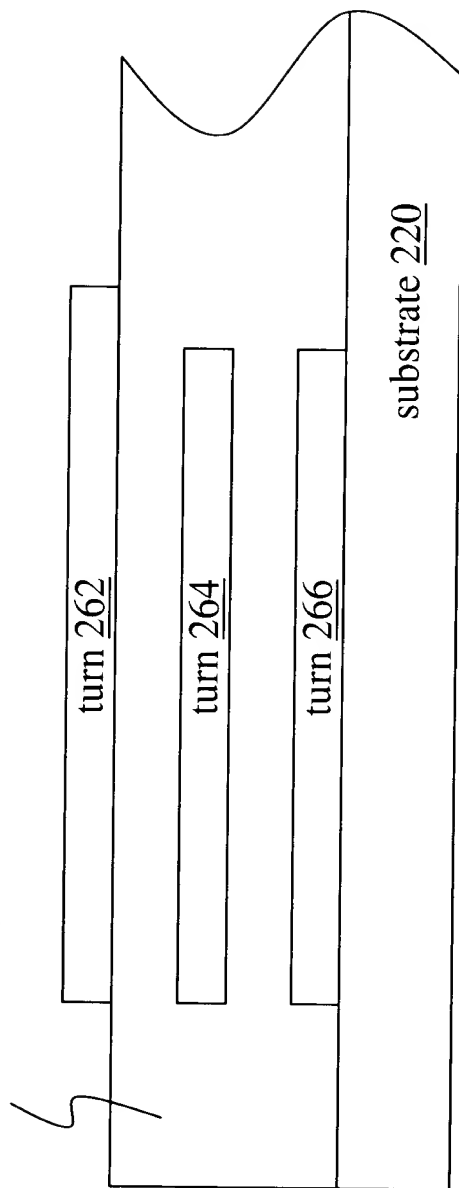


FIG. 13

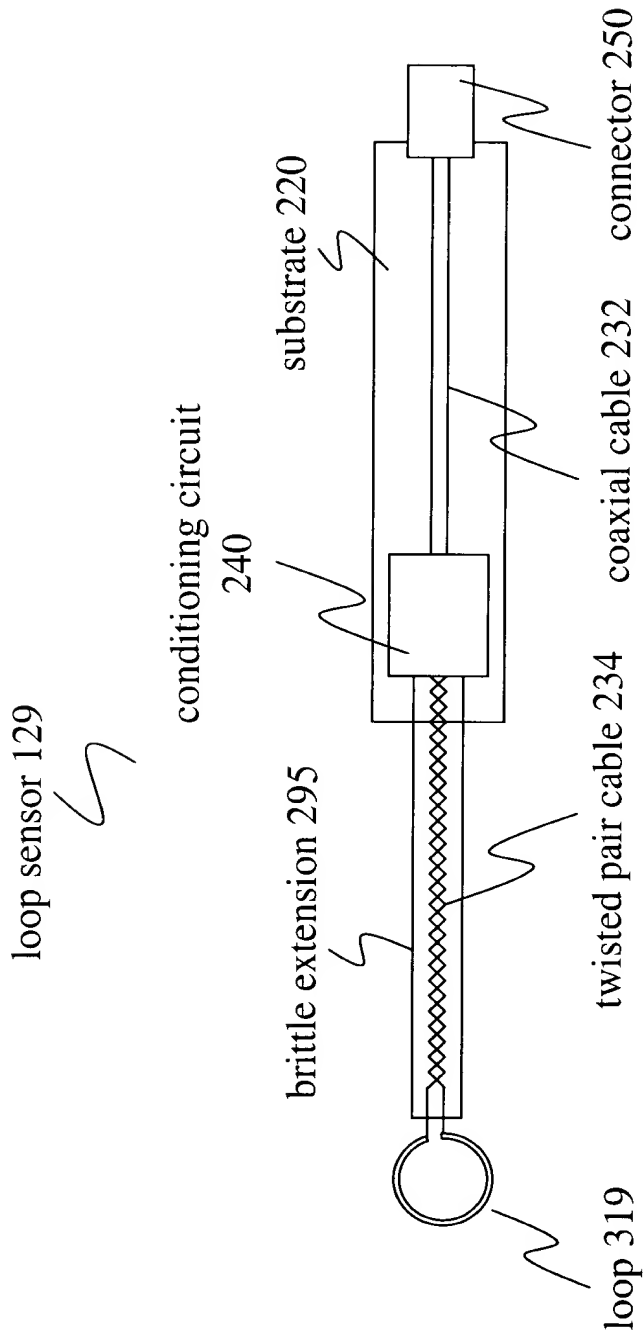


FIG. 14

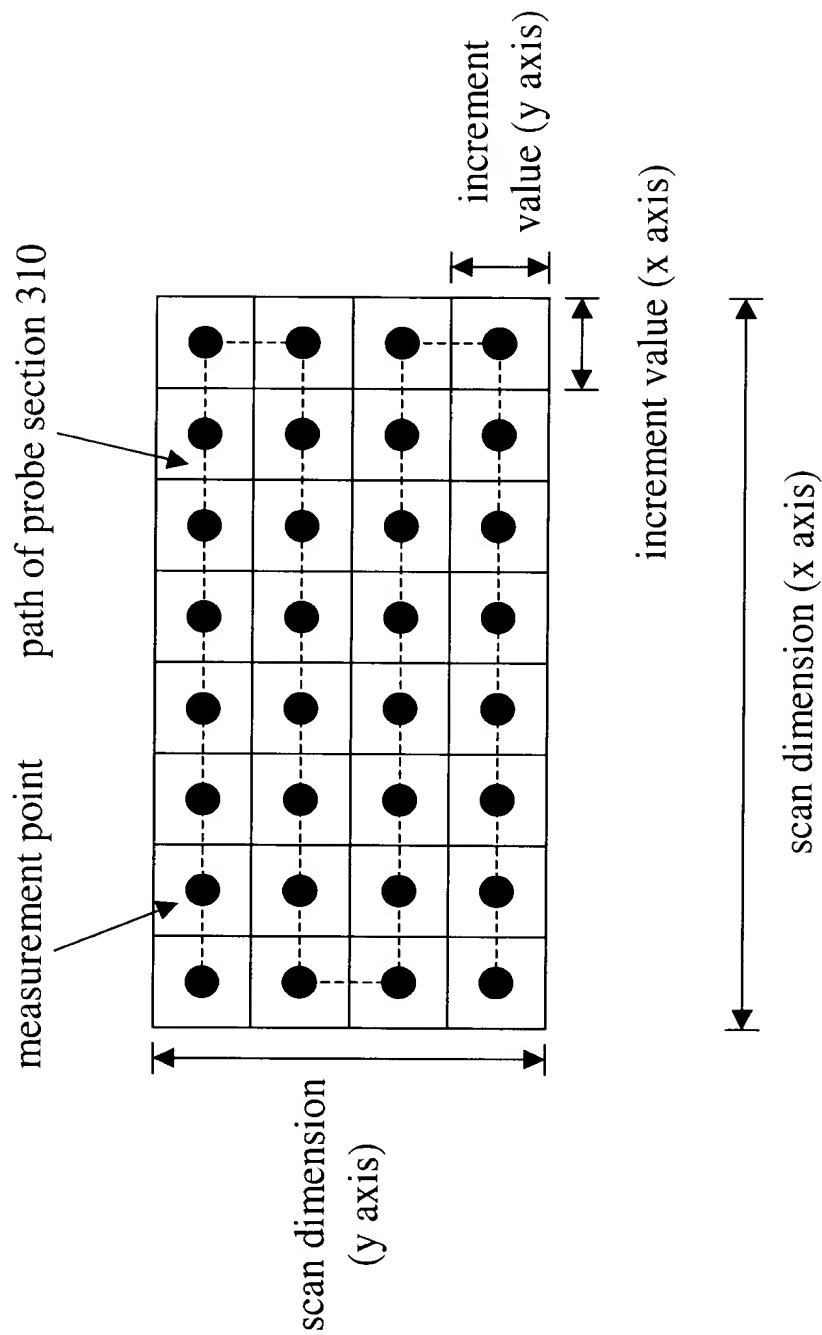


FIG. 15

FOUO-2012000

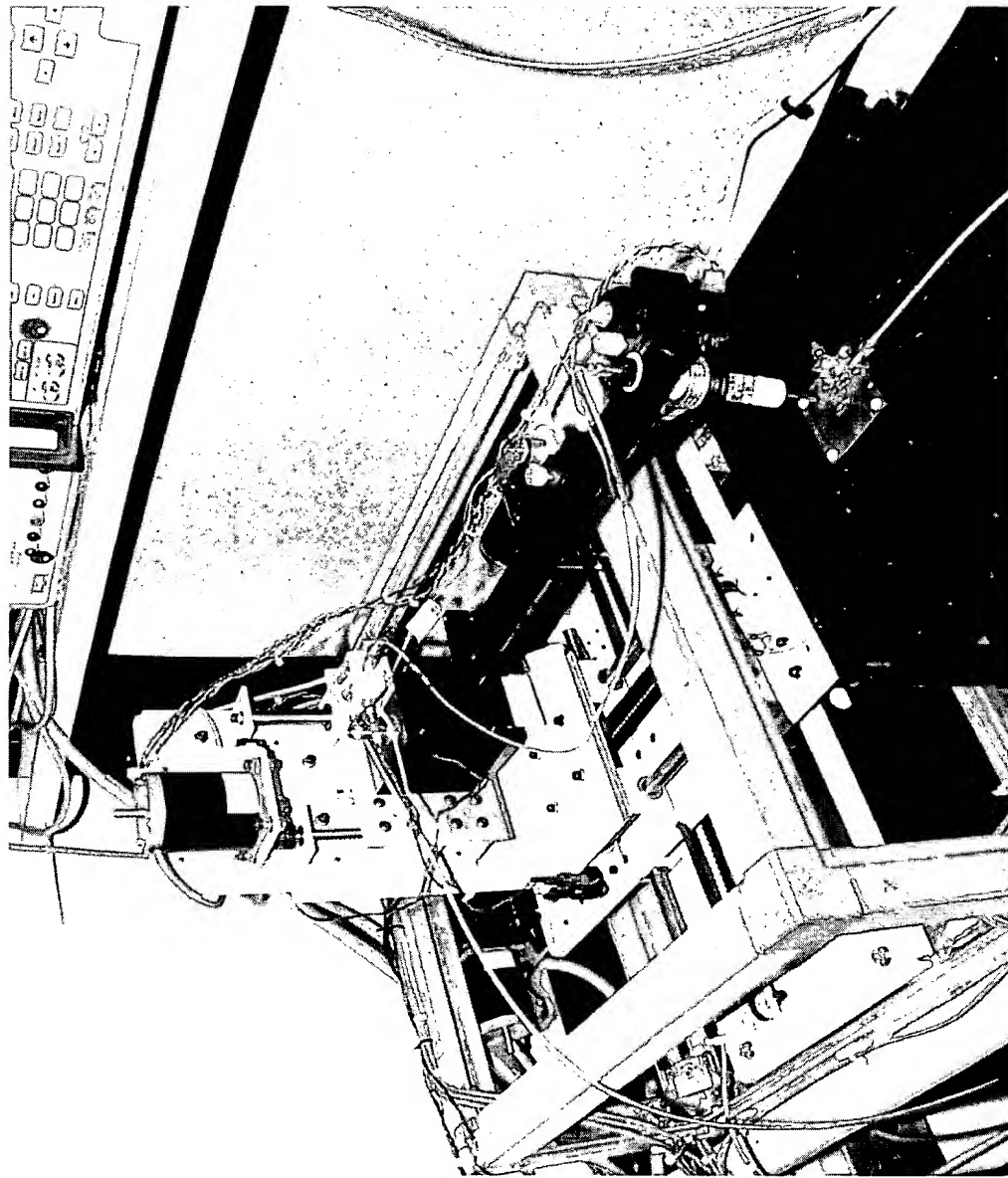


FIG. 16

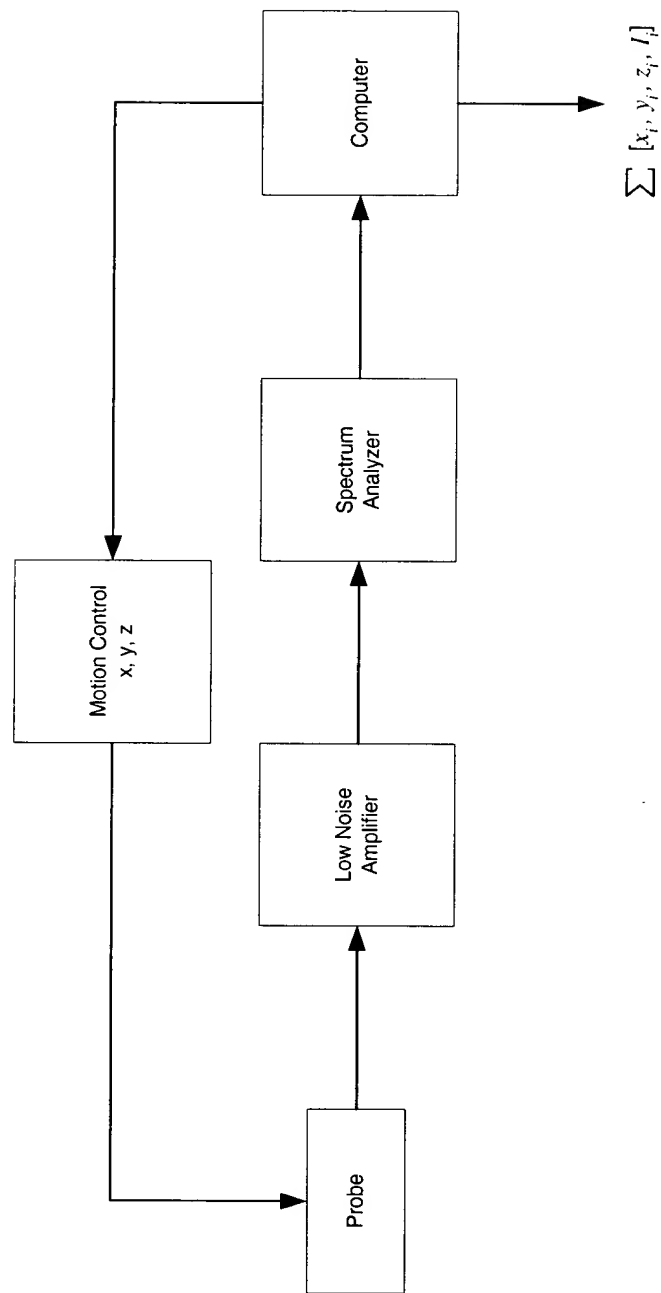


FIG. 17

702080 2312660

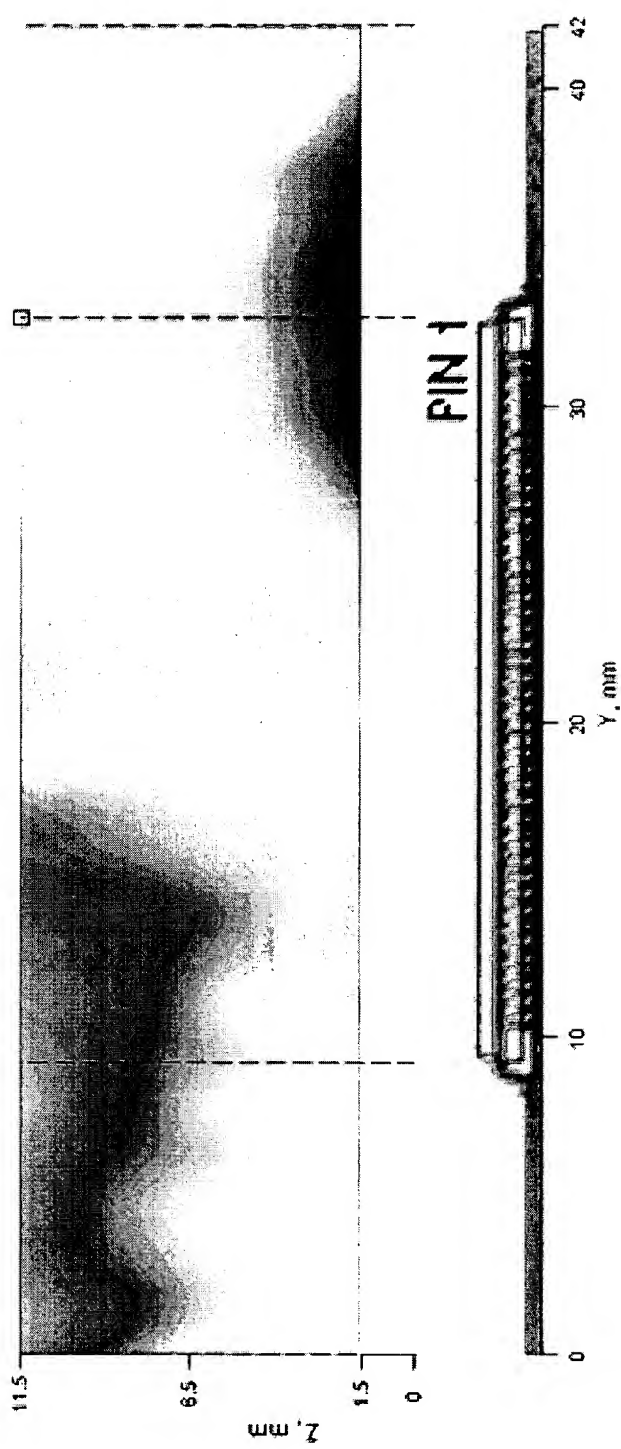


FIG. 18

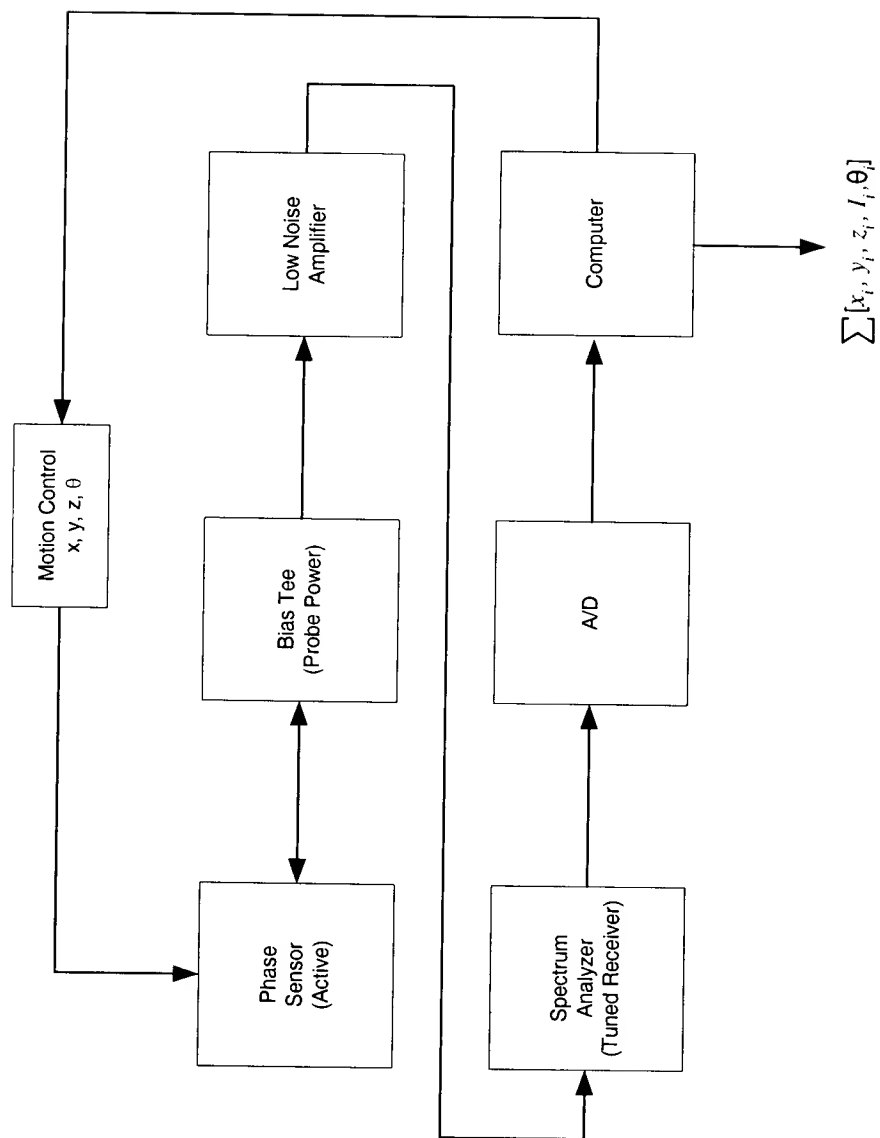


FIG. 19

FIG. 20

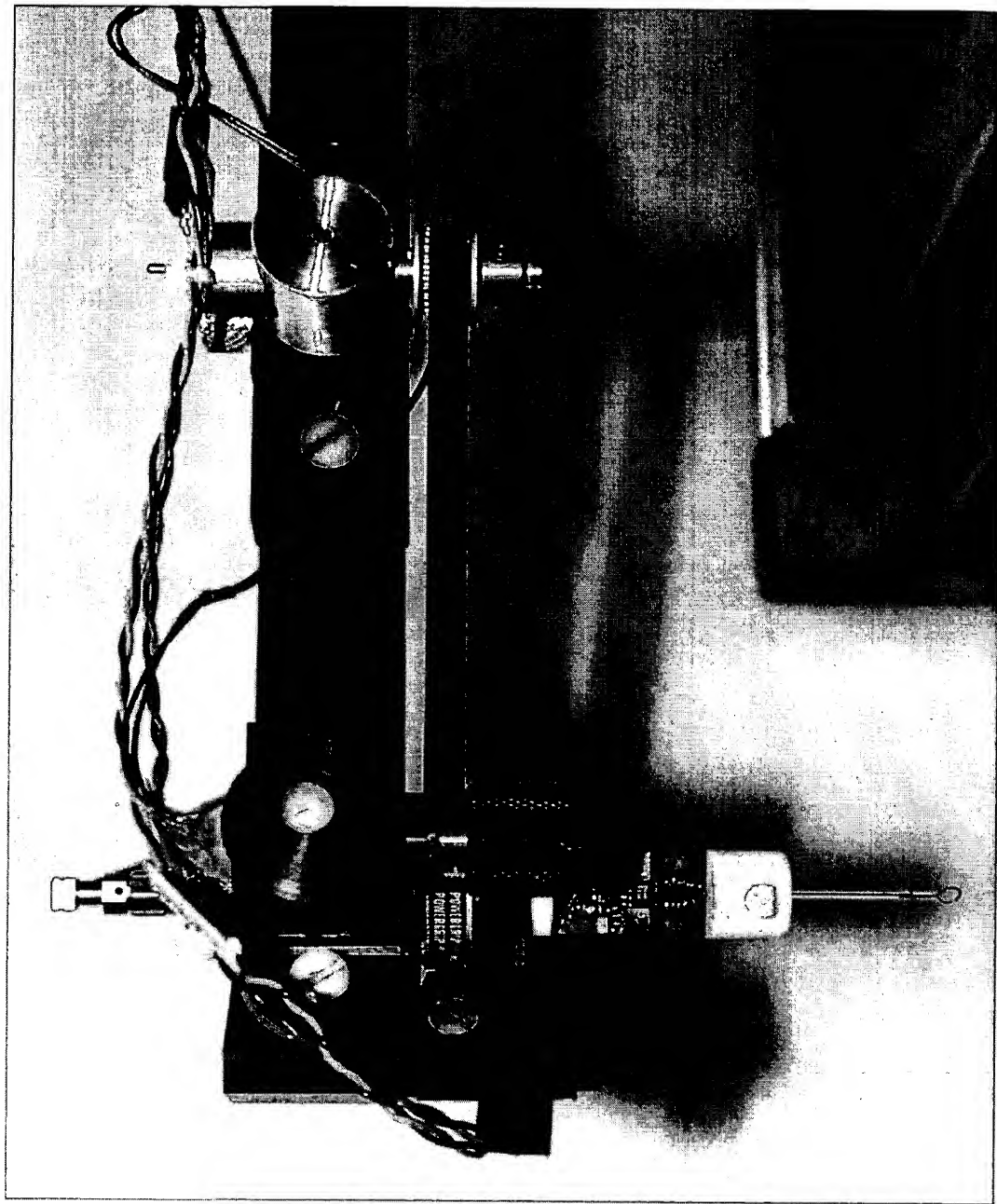


FIG. 20

11/16/99 - Micro stripline is terminated in 50 ohms. Frequency: 1000 MHz
 Probe Type: Magnetic Field. Measurement Increments: dx: 1.94 mm, dy: 1.97 mm, dz: 0 mm
 Number of Planes: 1, at 14.52 mm above DUT. Magnetic Field Intensity Unit: dB uA/m.

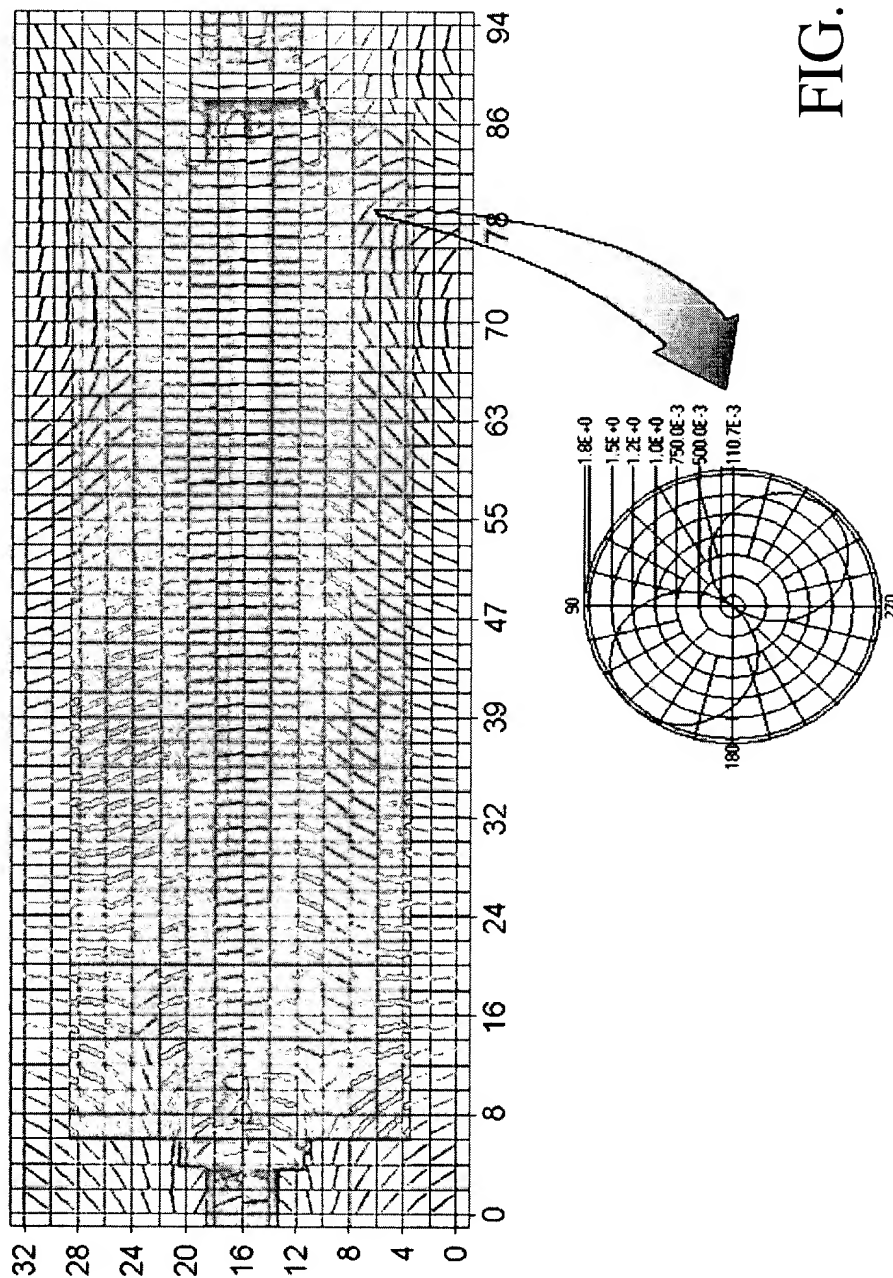
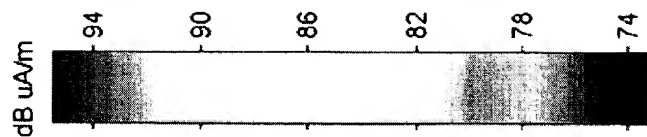


FIG. 21

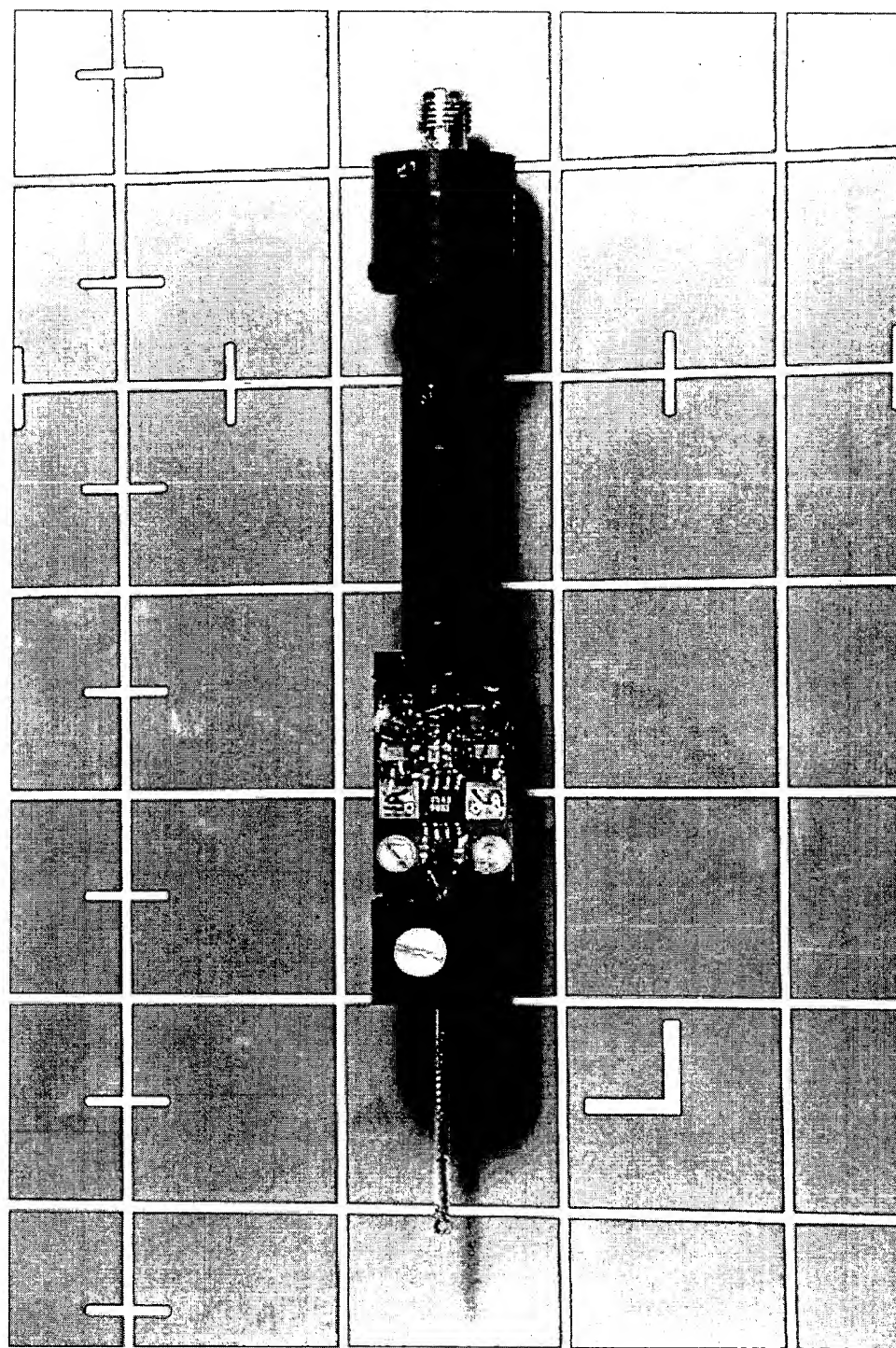
[illegible]

FIG. 22

FOOD-2342660

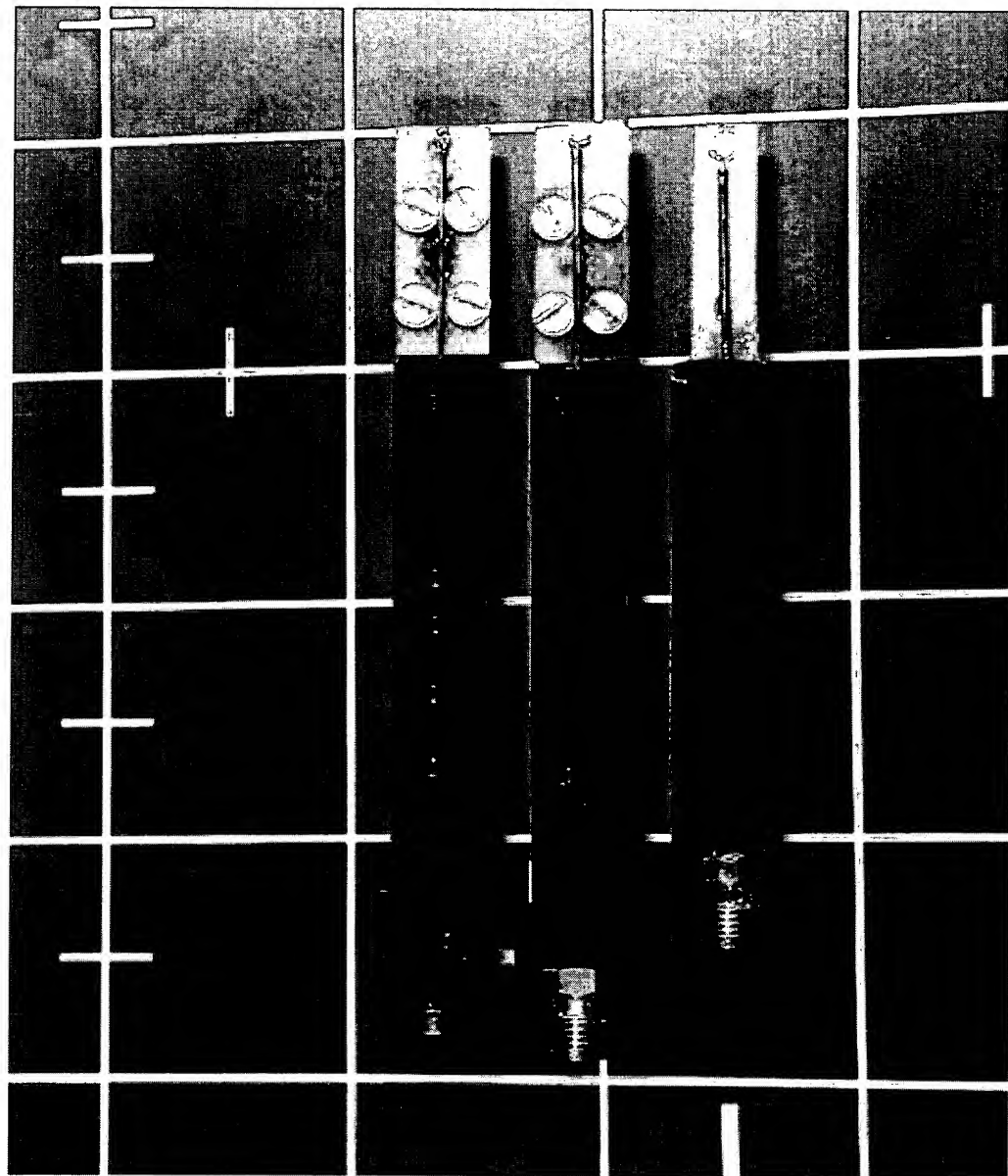


FIG. 23

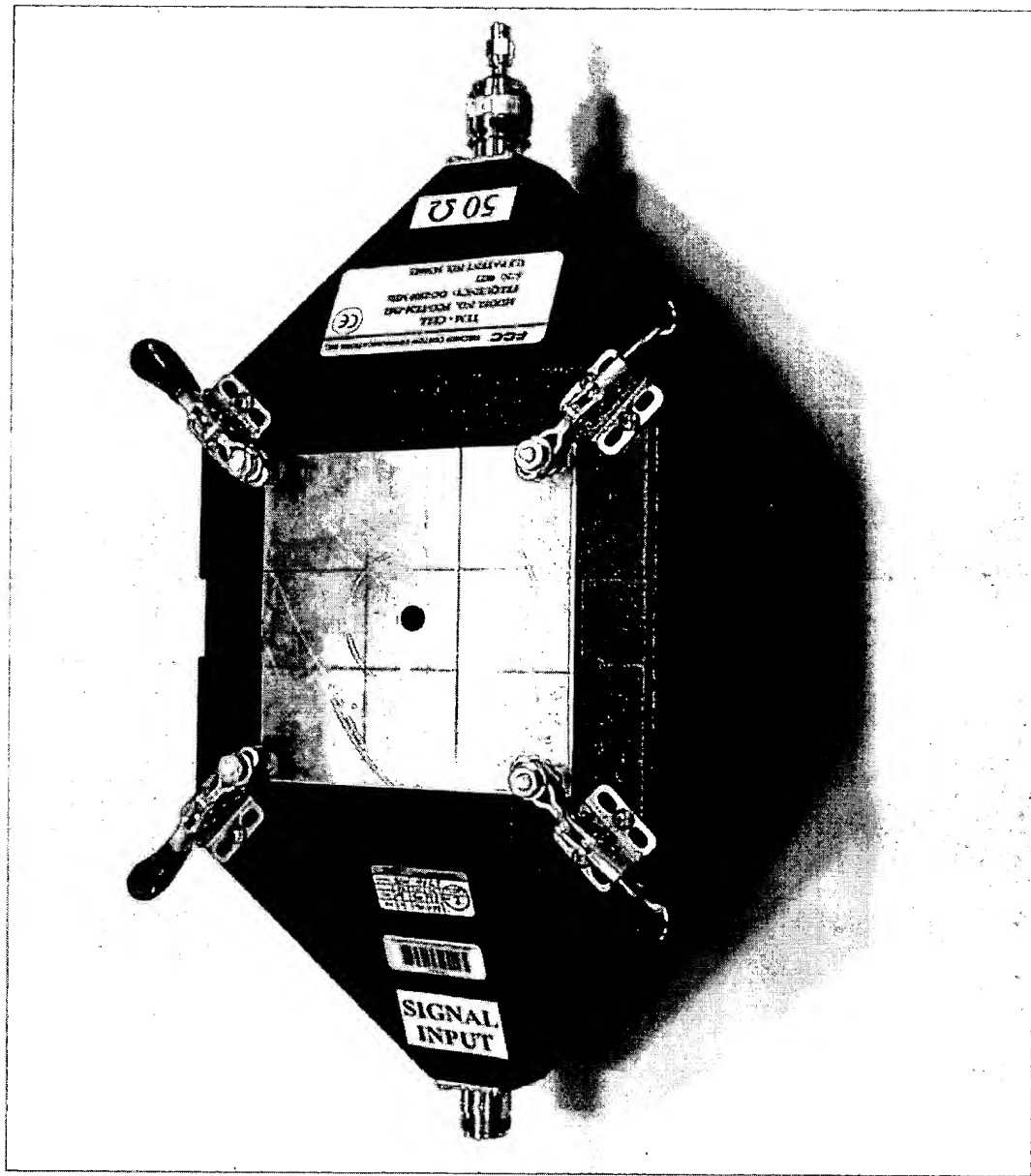


FIG. 24

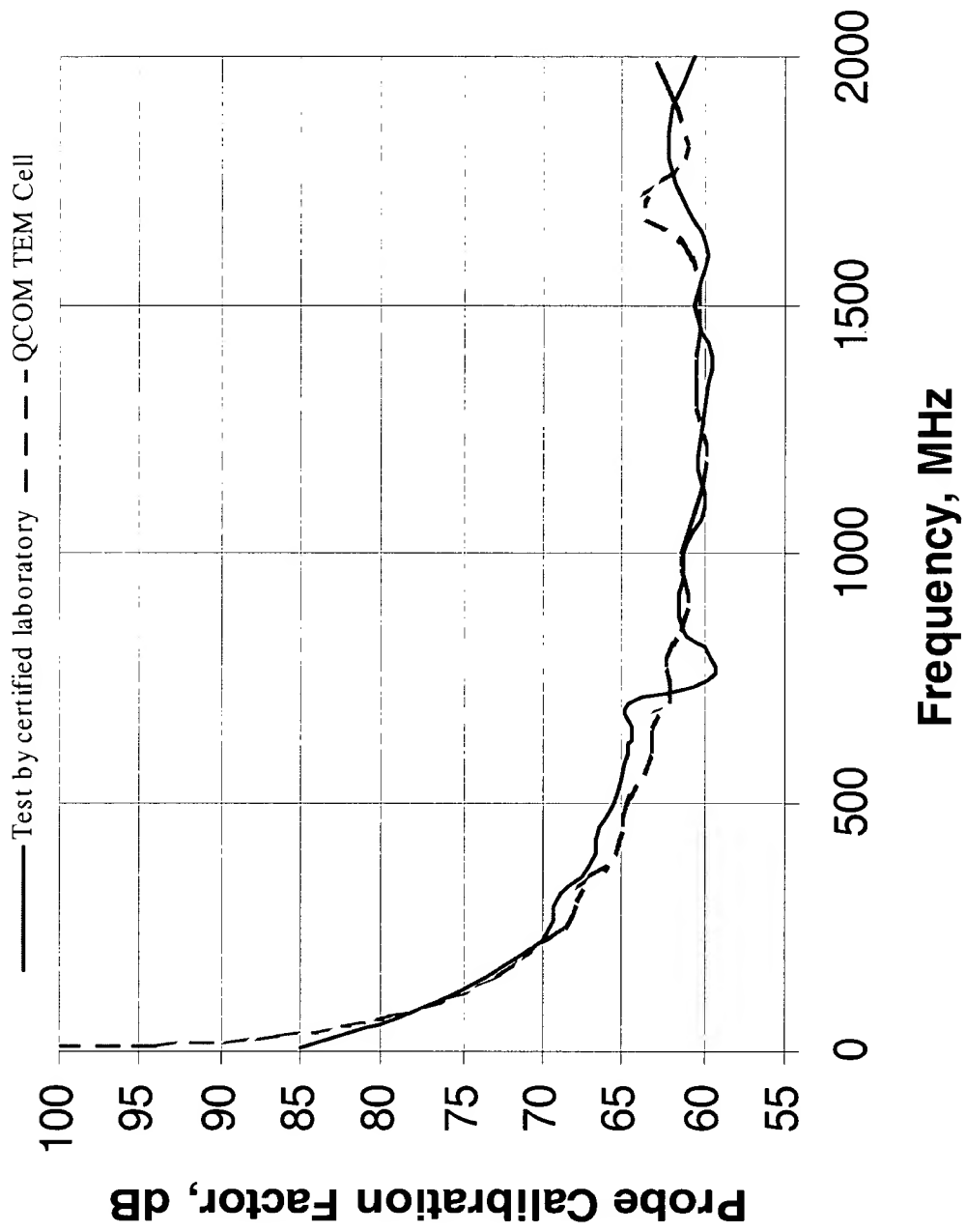


FIG. 25

FIG. 26

FIG. 27

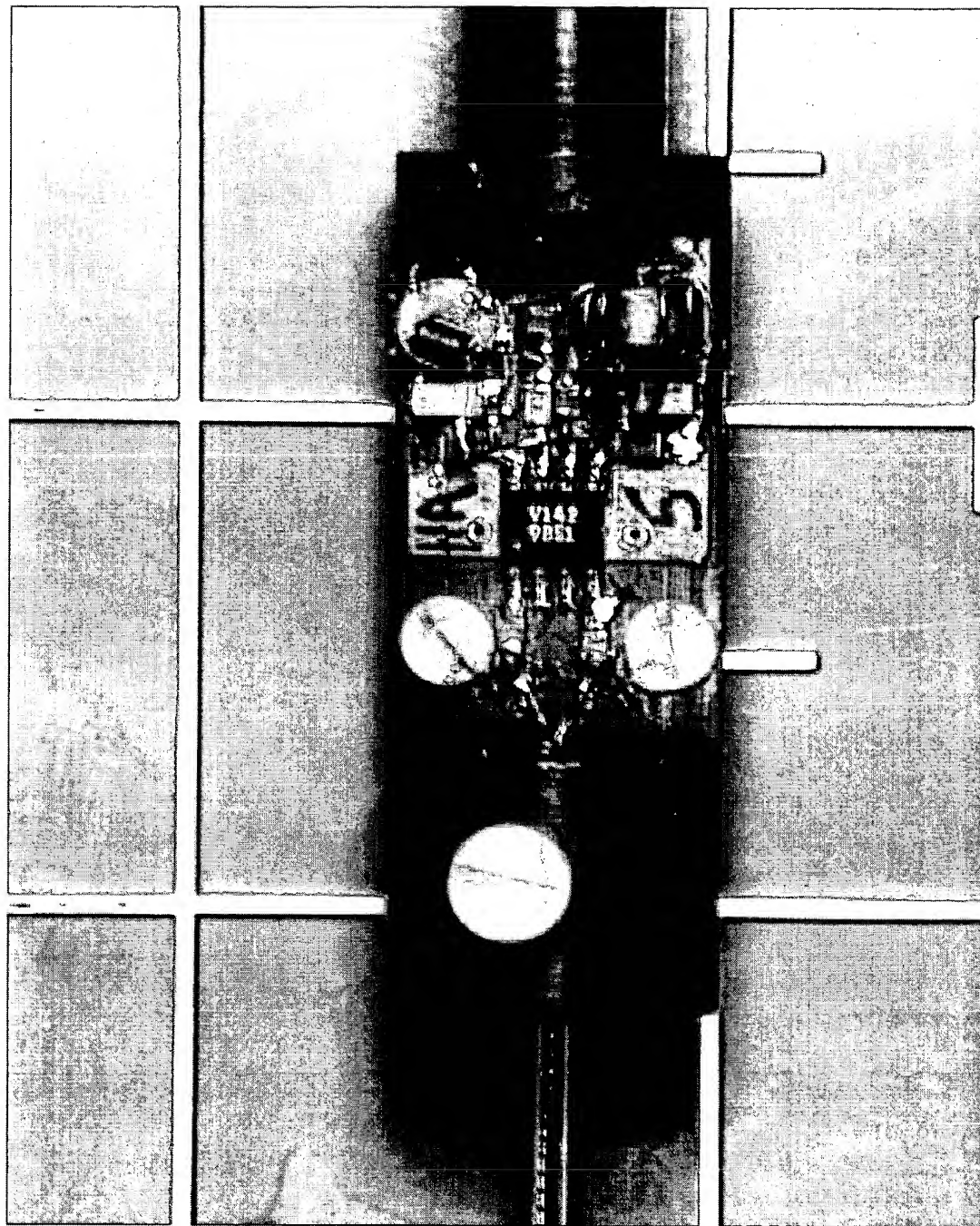
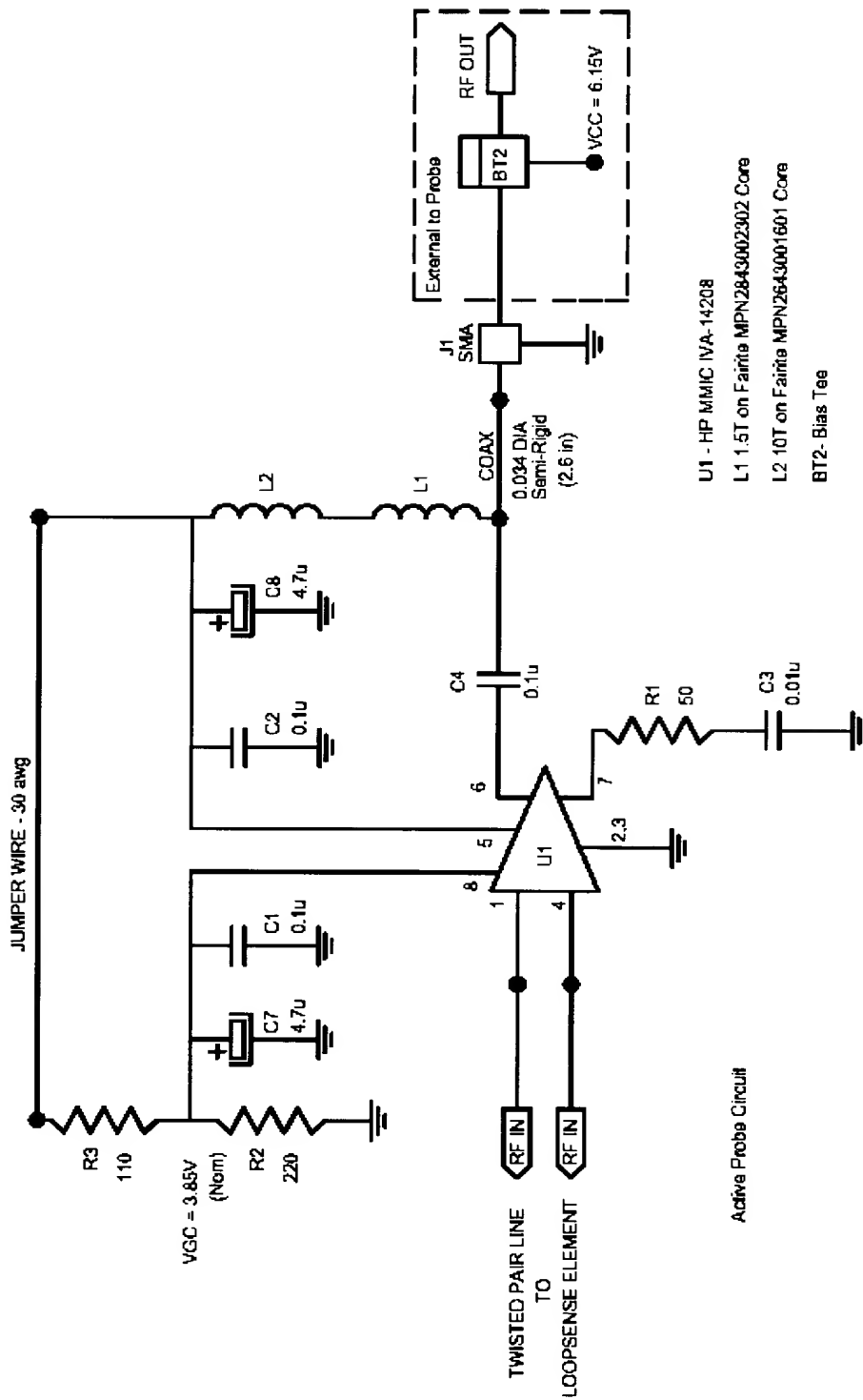


FIG. 27



- U1 - HP MMIC IVA-14208
- L1 1.5T on Fairite MPN2843002302 Core
- L2 10T on Fairite MPN2643001601 Core
- BT2- Bias Tee

FIG. 28

70E080-242260

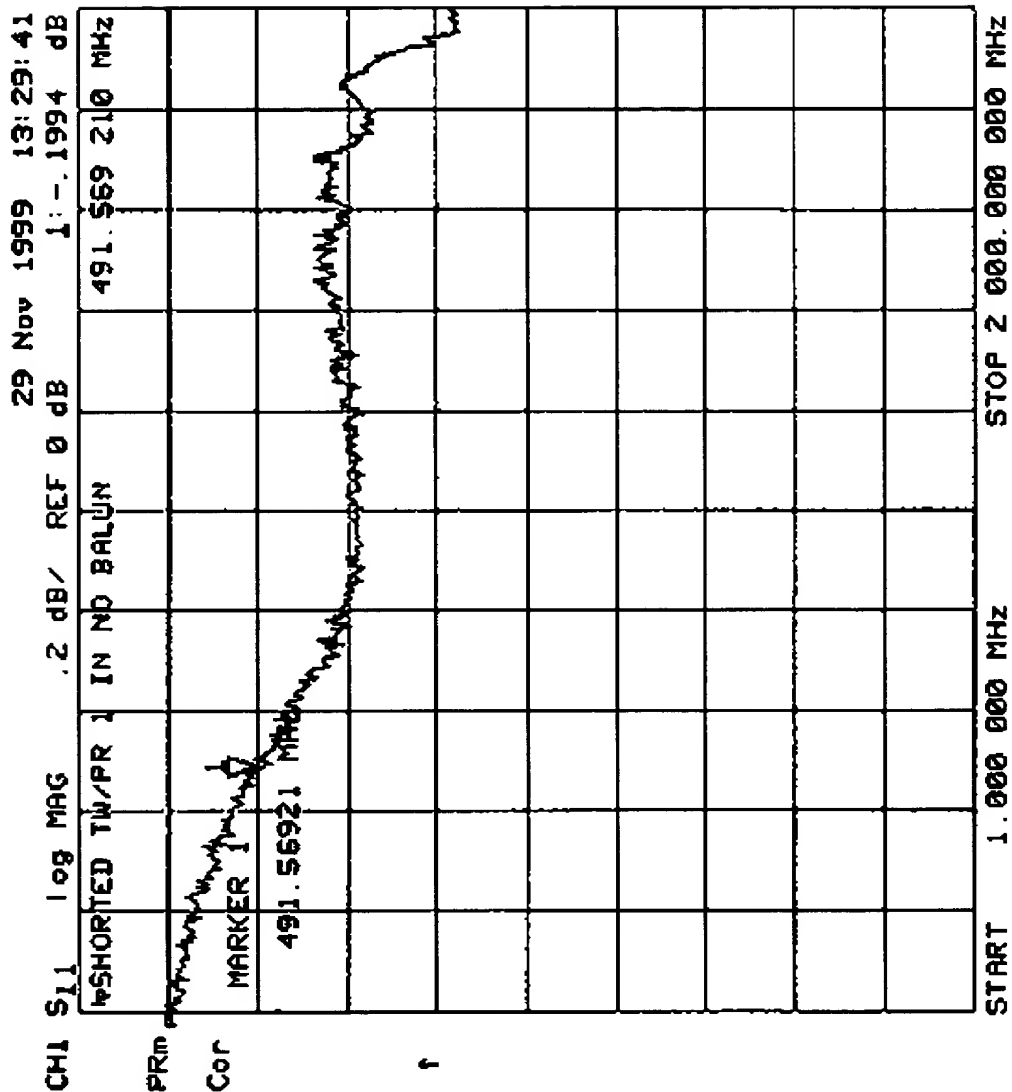
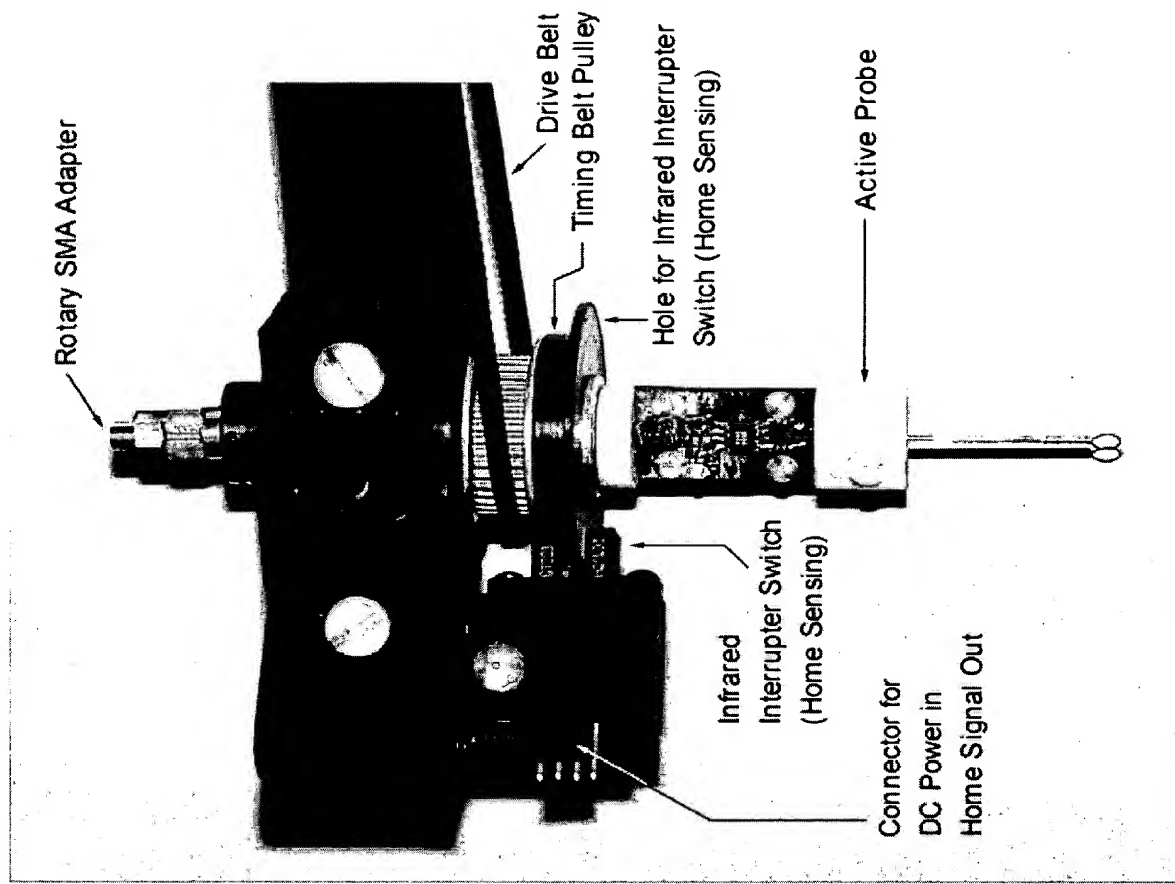


FIG. 29

FIG. 30



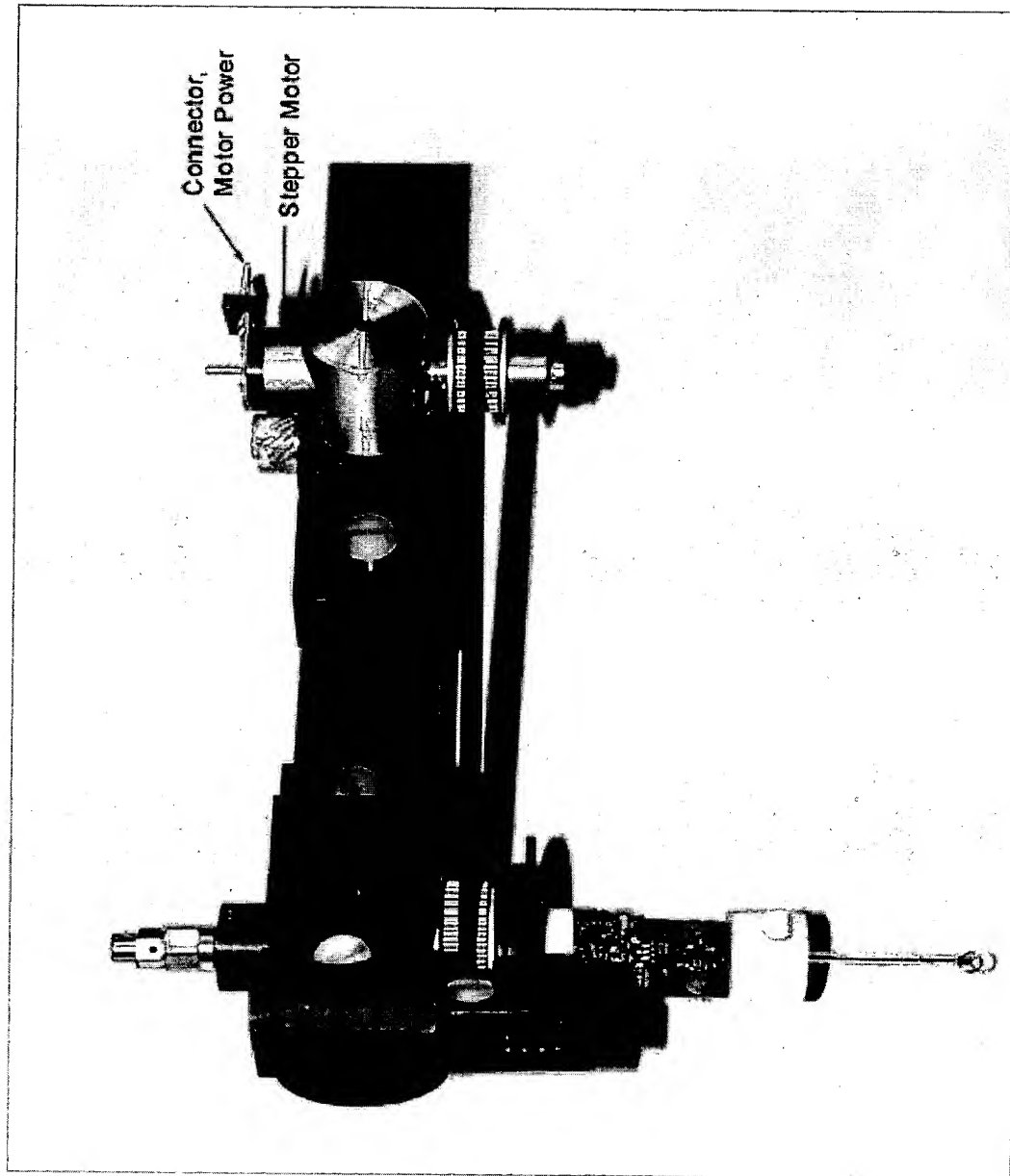


FIG. 31

FIG. 32

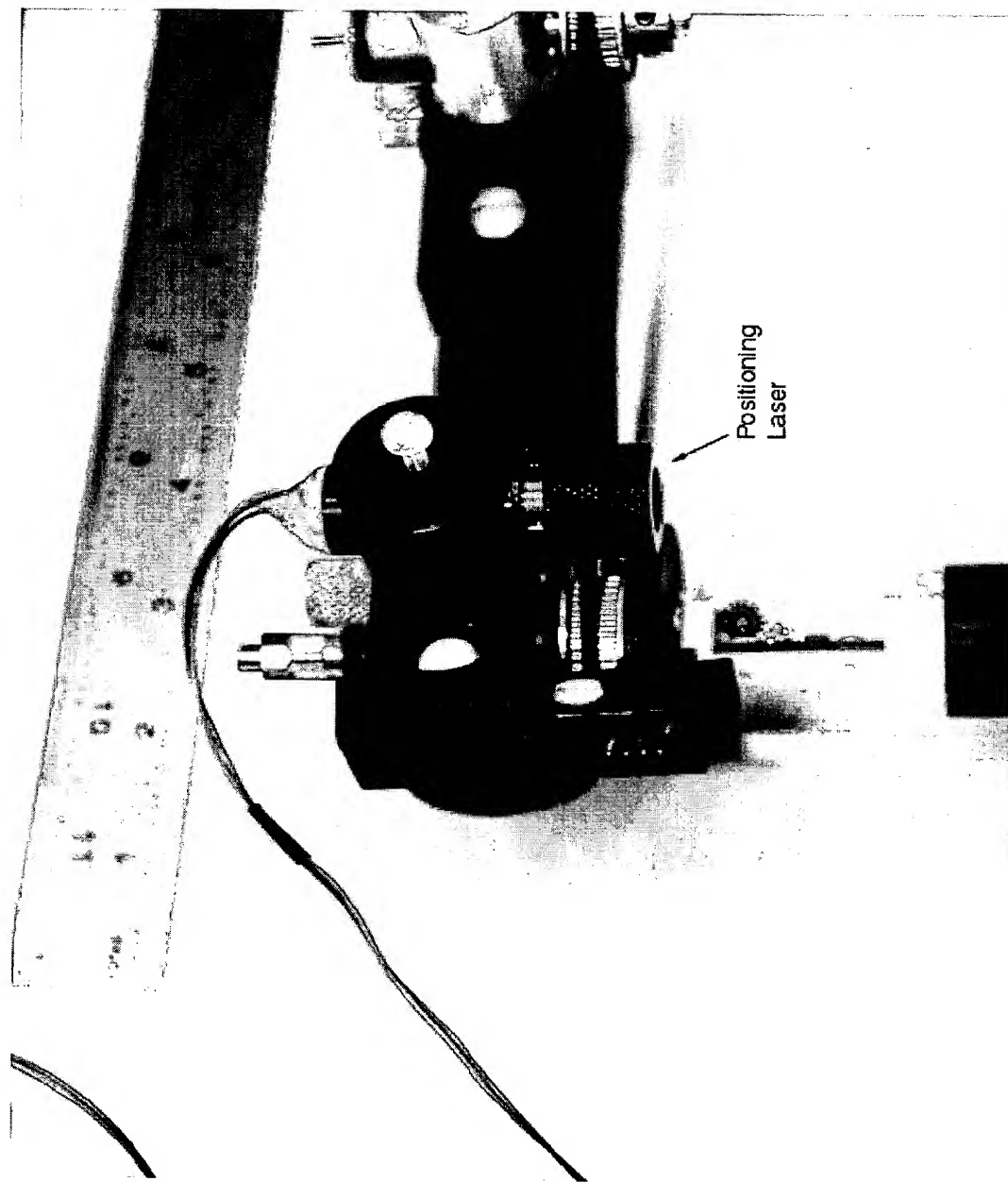


FIG. 32

FOEBB" 6422600

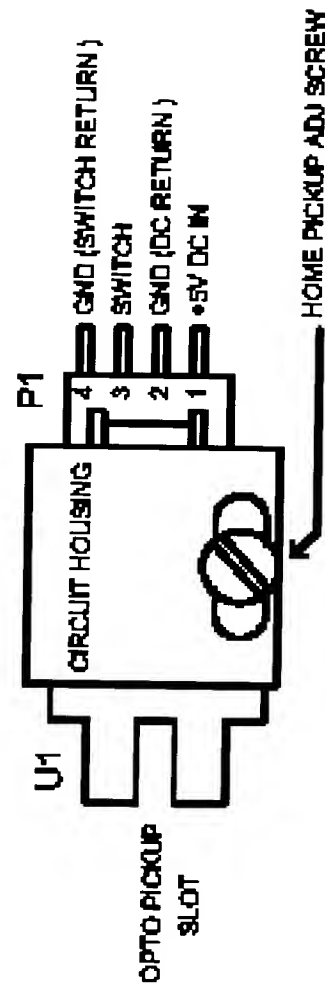
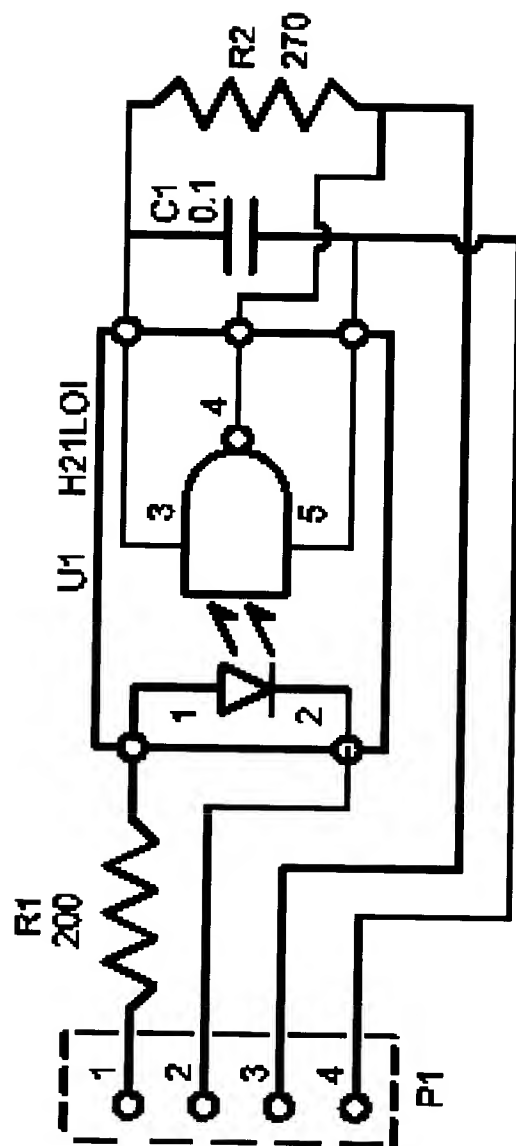


FIG. 33

Probe Measurement

Initialization

Cal data File:

PM Address:

SG Address:

SA Address:

Calibrate using:

Measurement Spectrum Analyzer Settings

Ext. Preamp Gain (dB):

Reference Level (mV):

Probe Type:

Amplitude (mV): Probe Factor:

Frequency (MHz): 1800.00

The plot shows a frequency spectrum with a peak at approximately 1800 MHz. The y-axis represents Amplitude (mV) from -31.5 to 38.5, and the x-axis represents Frequency (MHz) from 0.1 to 2100.0.

FIG. 34

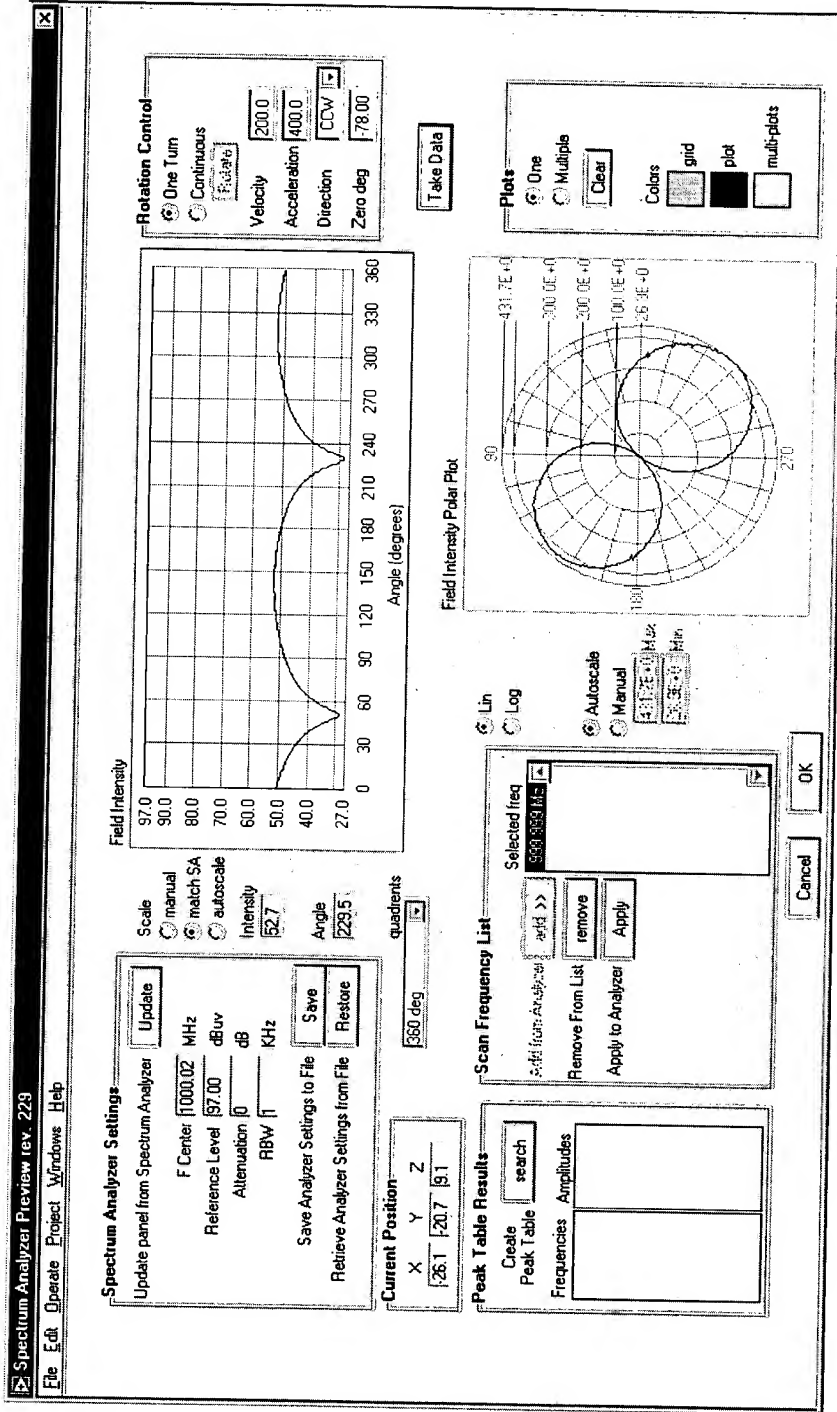


FIG. 35

Current distribution on a micro stripline.
 The Micro Stripline is terminated in 50 ohms. Frequency: 1000 MHz
 Probe Type: Magnetic Field. Measurement Increments: dx: 1.97 mm, dy: 1.94 mm, dz: 0 mm
 Number of Planes: 1, at 14.37 mm above DUT. Magnetic Field Intensity Unit: dB uA/m.

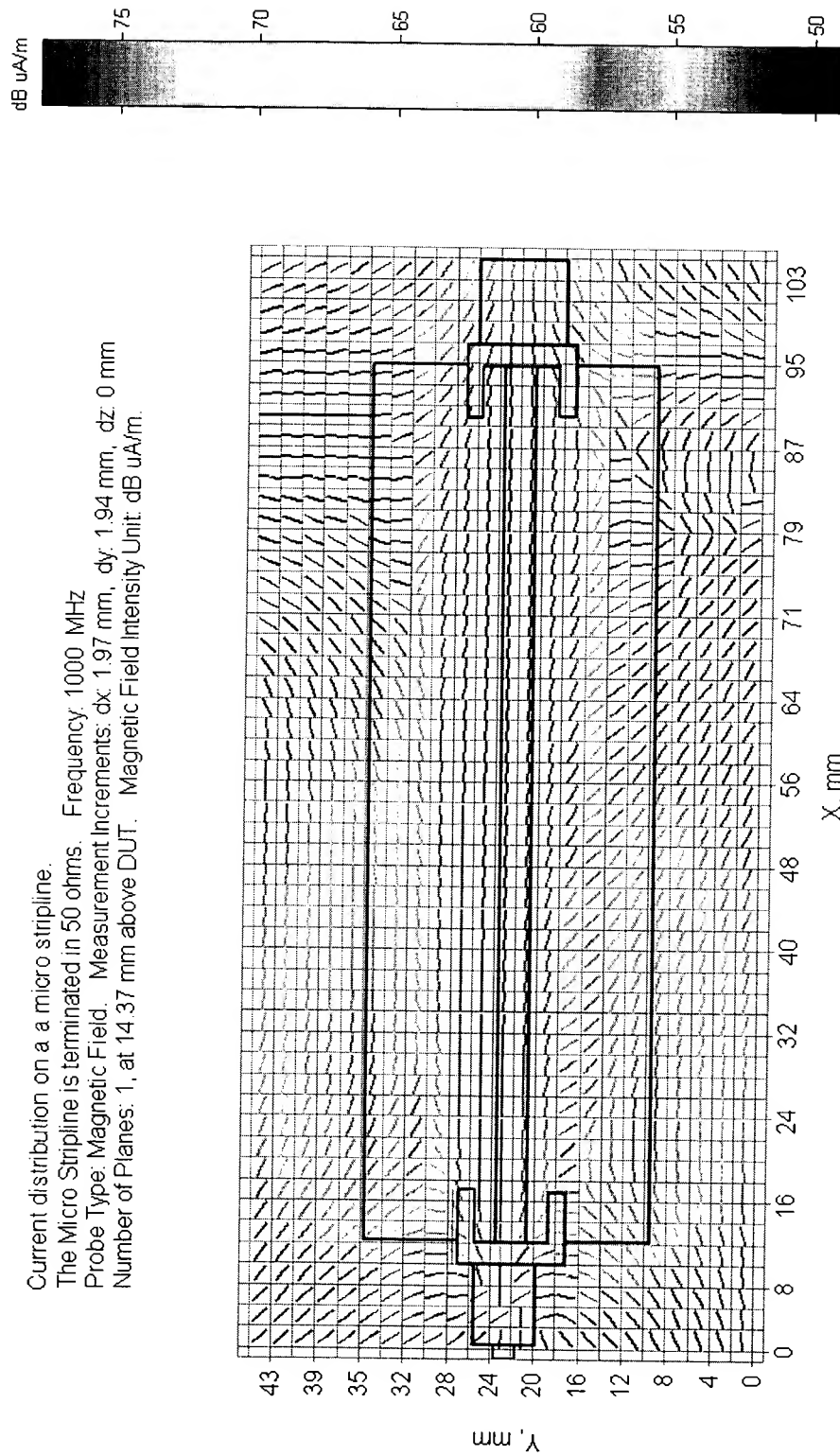


FIG. 36

The screenshot displays the Spectrum Analyzer software interface. At the top, a title bar reads "NFS Probes rev. 61" with a close button (X). The main window is titled "Probe Measurement".

Initialization Panel:

- PM Address: 0 (with a "reset" button)
- SG Address: 6
- SA Address: 18
- Calibrate using: Spectrum Analyzer (dropdown menu)
- Buttons: Re-Initialize, Calibrate, Measure, Save, Exit

Cal data File: ProbeCal to 1800.cal (dropdown menu)

Measurement Spectrum Analyzer Settings Panel:

- Ext. Preamplifier Gain (dB): 0.0000
- Reference Level (mV): 100.0000
- Attenuation: Auto (dropdown menu)
- Probe Type: E-Field (dropdown menu)

Display:

- Amplitude (mV): 3.04
- Probe Factor: 50.34
- Graph: A line graph showing a frequency spectrum. The y-axis is labeled from 20.0 to 100.0 in increments of 5.0. The x-axis is labeled "Frequency (MHz)" and ranges from 0 to 2100.0 in increments of 200.0. The graph shows a rising curve starting around 200 MHz, peaking at approximately 1200 MHz, and then slightly declining.

FIG. 37

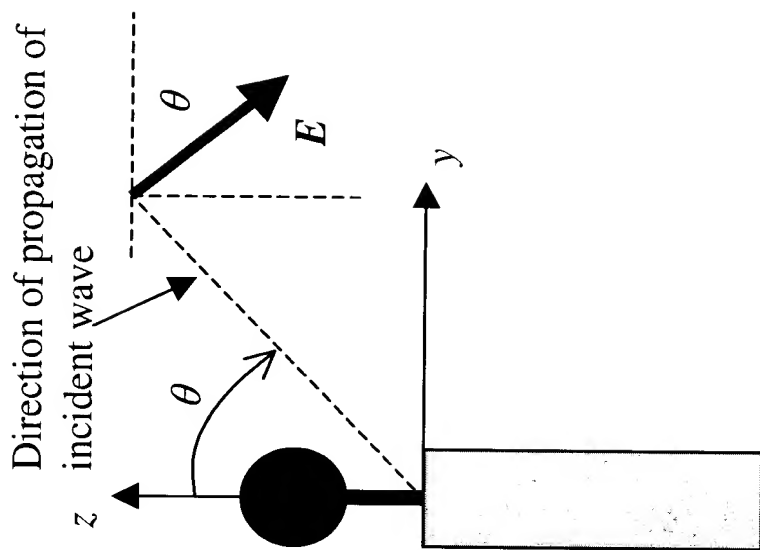


FIG. 38

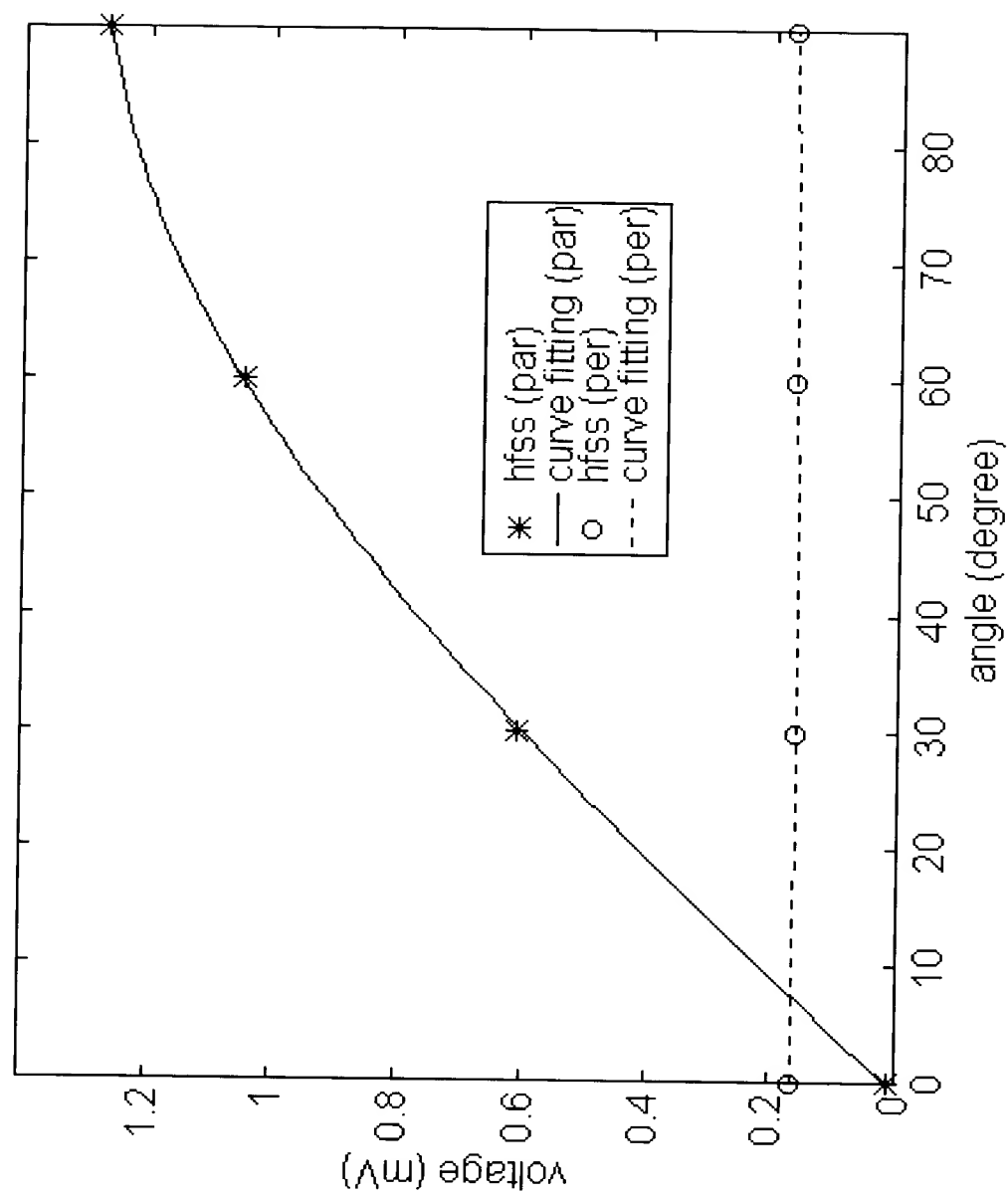


FIG. 39

FIG. 40

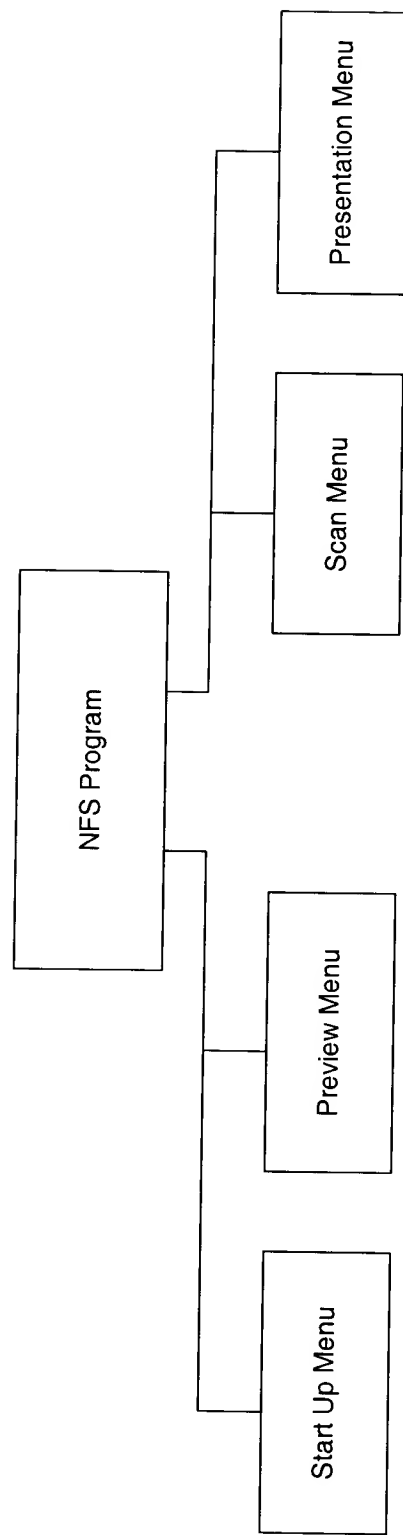


FIG. 40

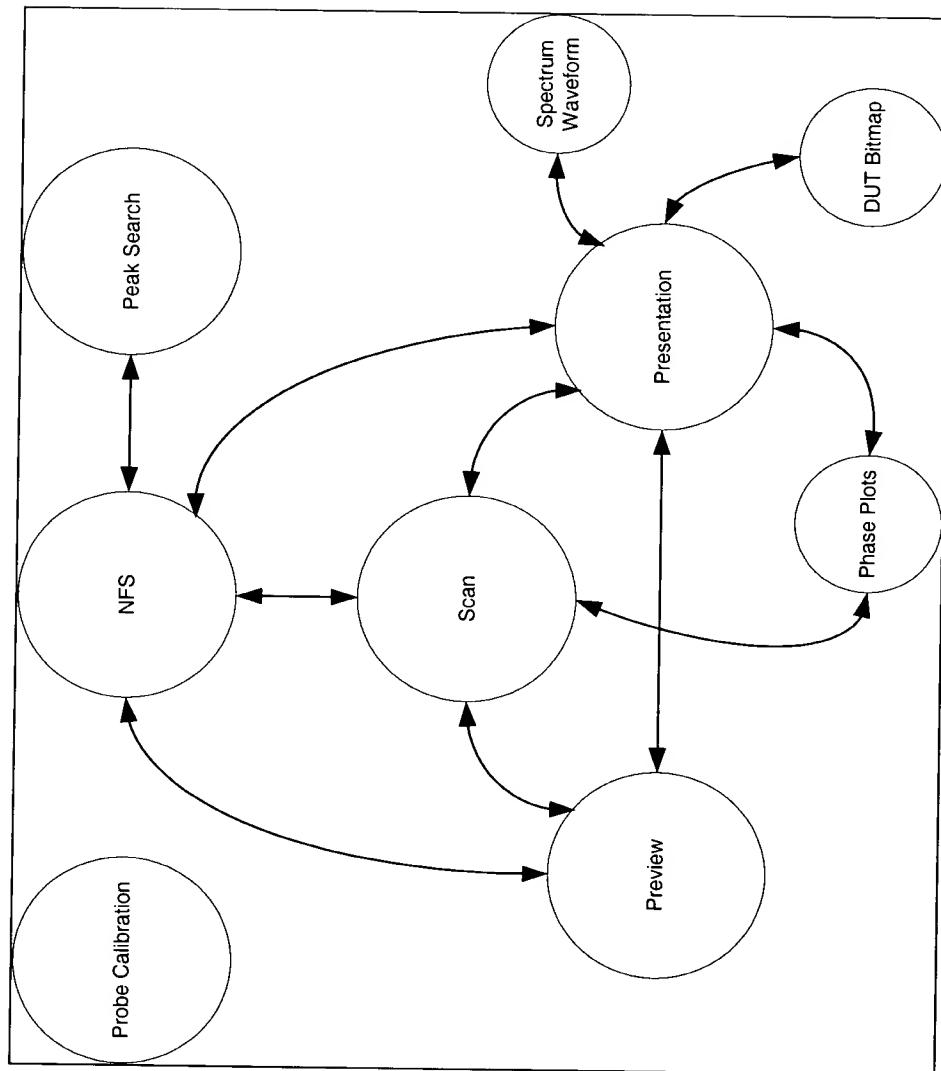


FIG. 41

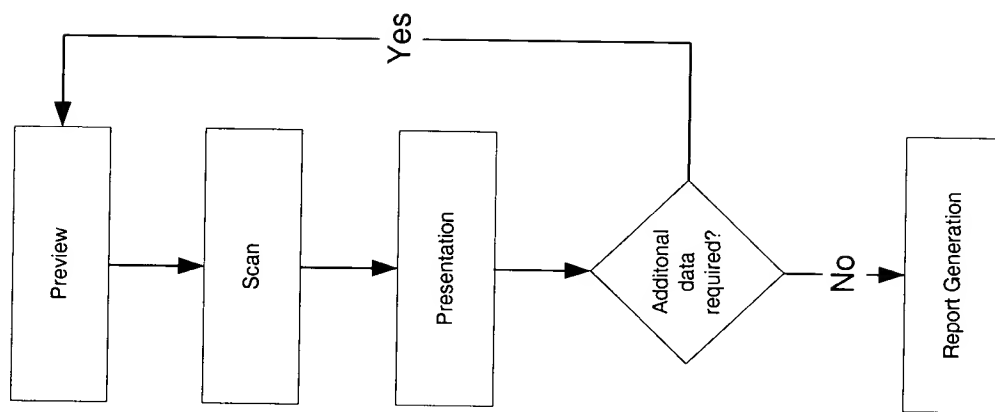


FIG. 42

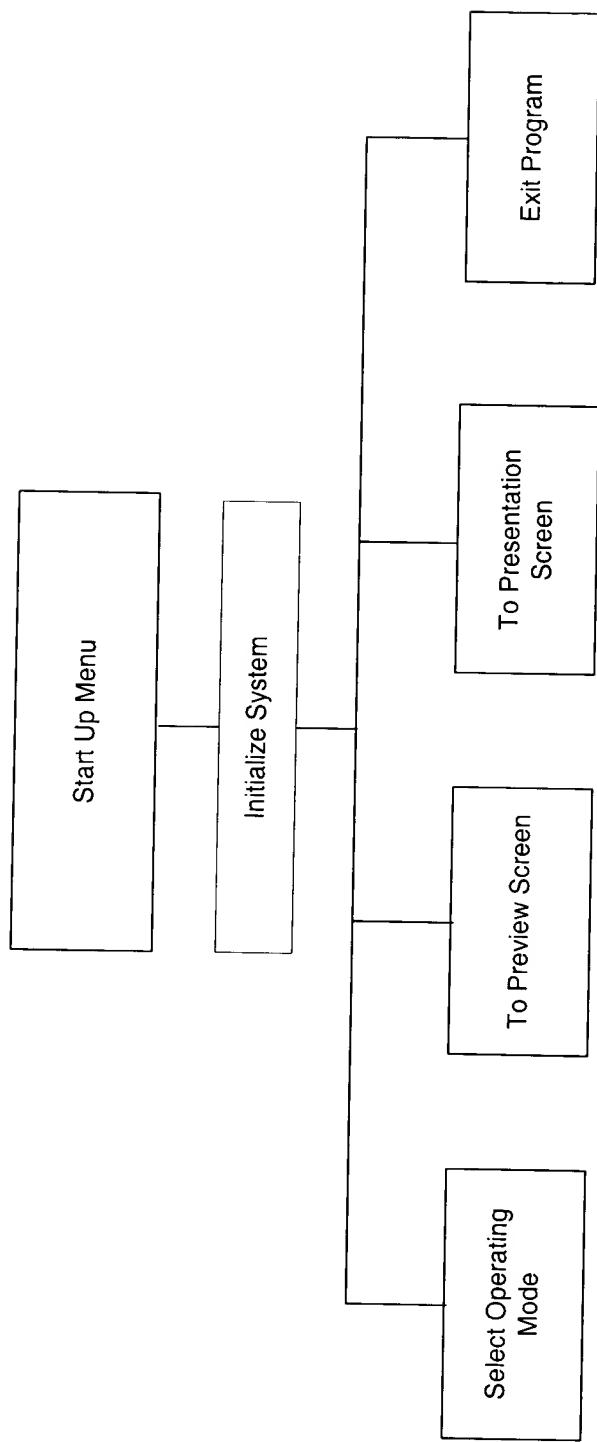


FIG. 43

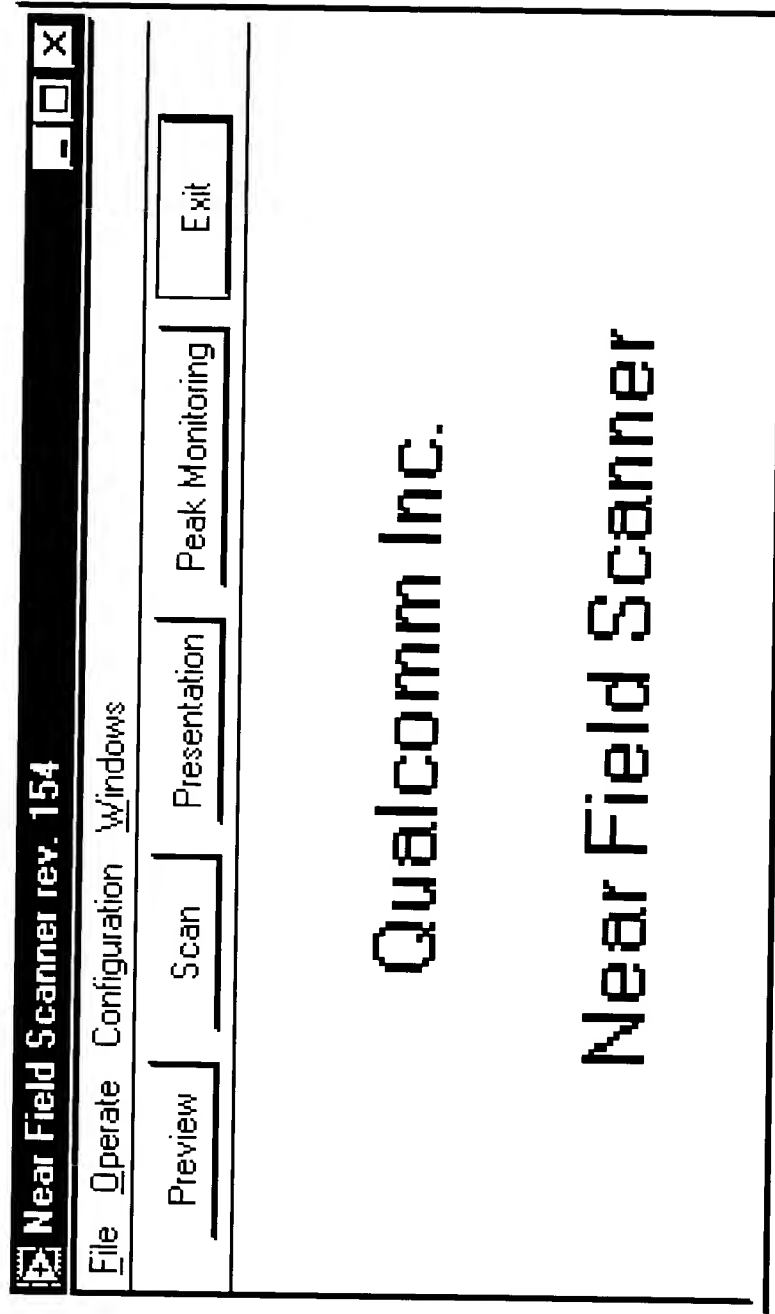


FIG. 44

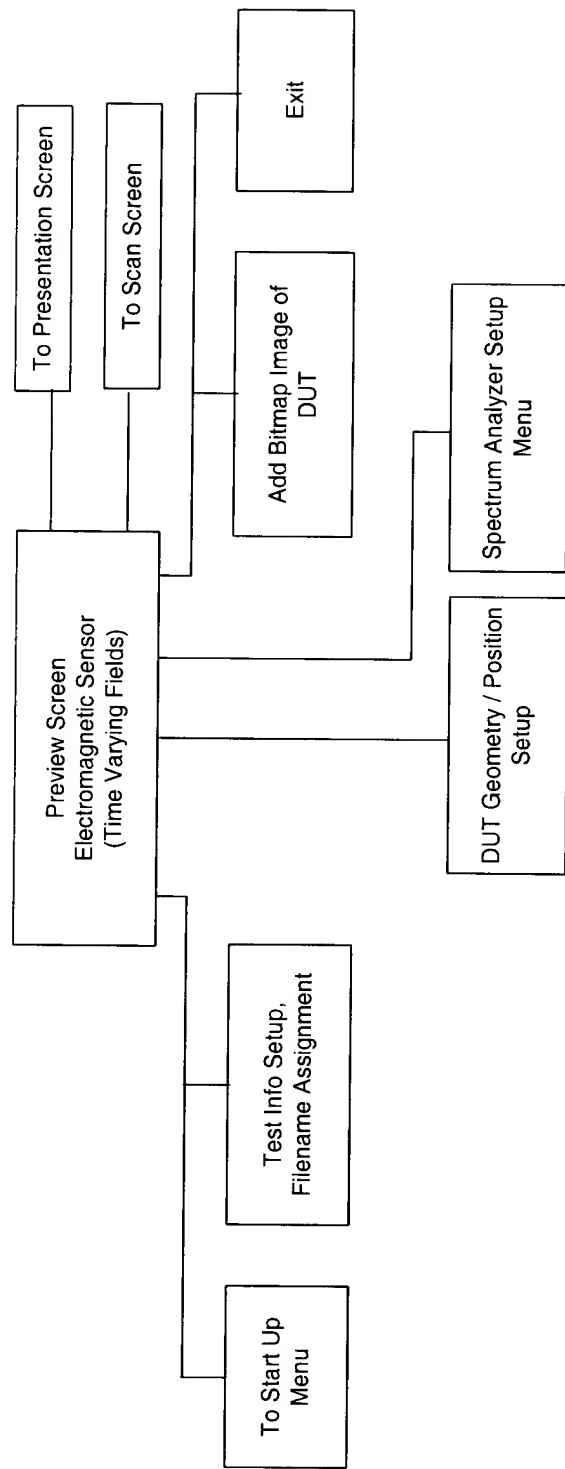


FIG. 45

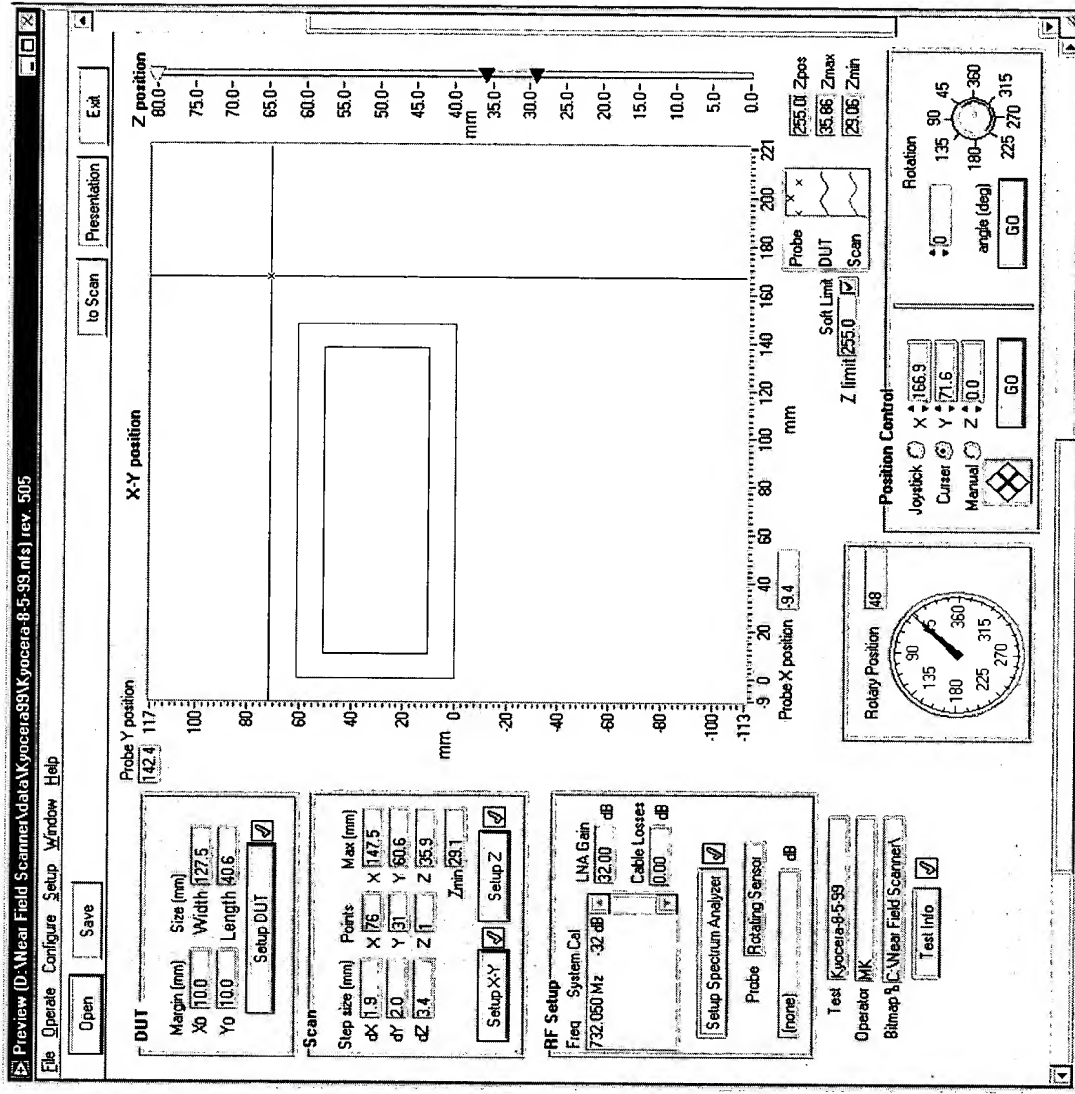


FIG. 46

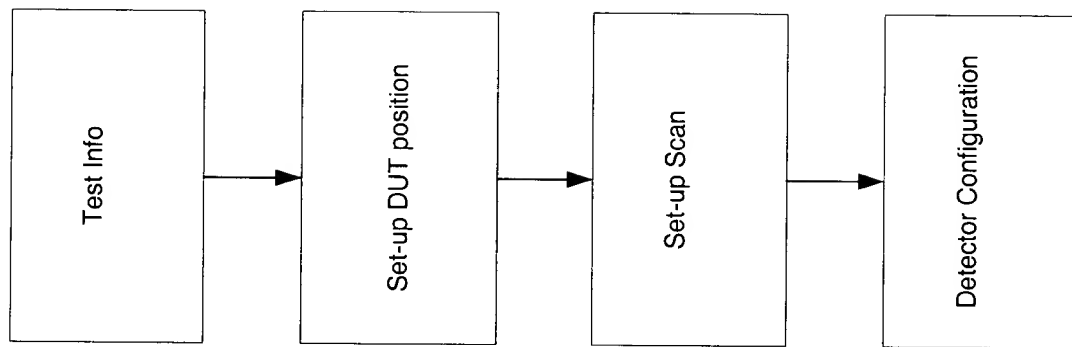


FIG. 47

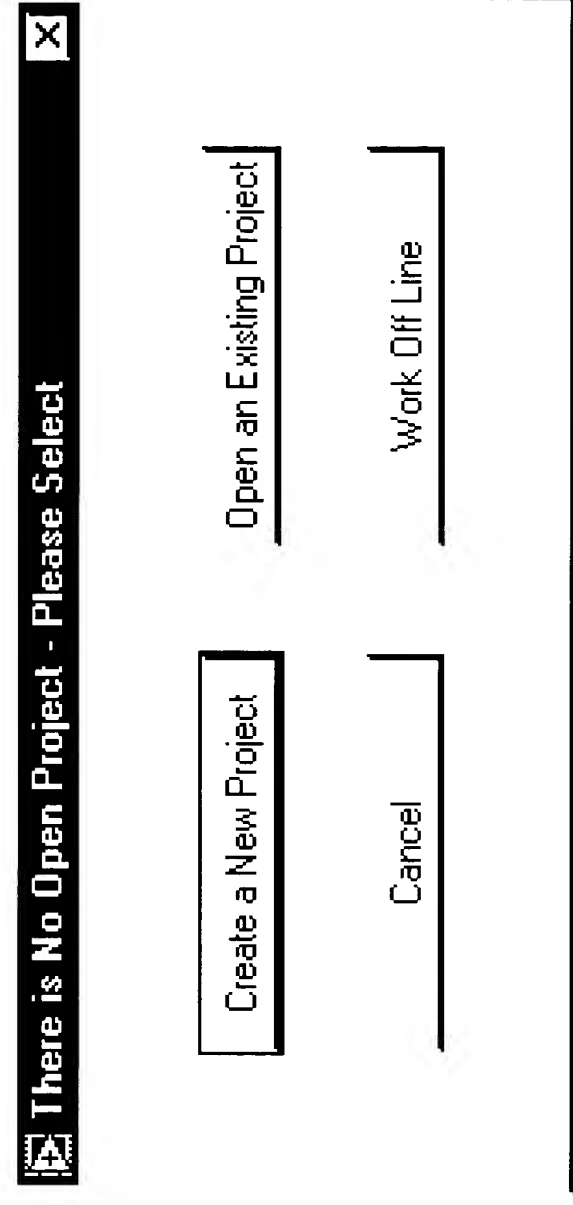


FIG. 48

Edit Probe Transfer Factor rev. 15

Probe Name

Ball-2

Units

dB uV/m

Probe correction equation

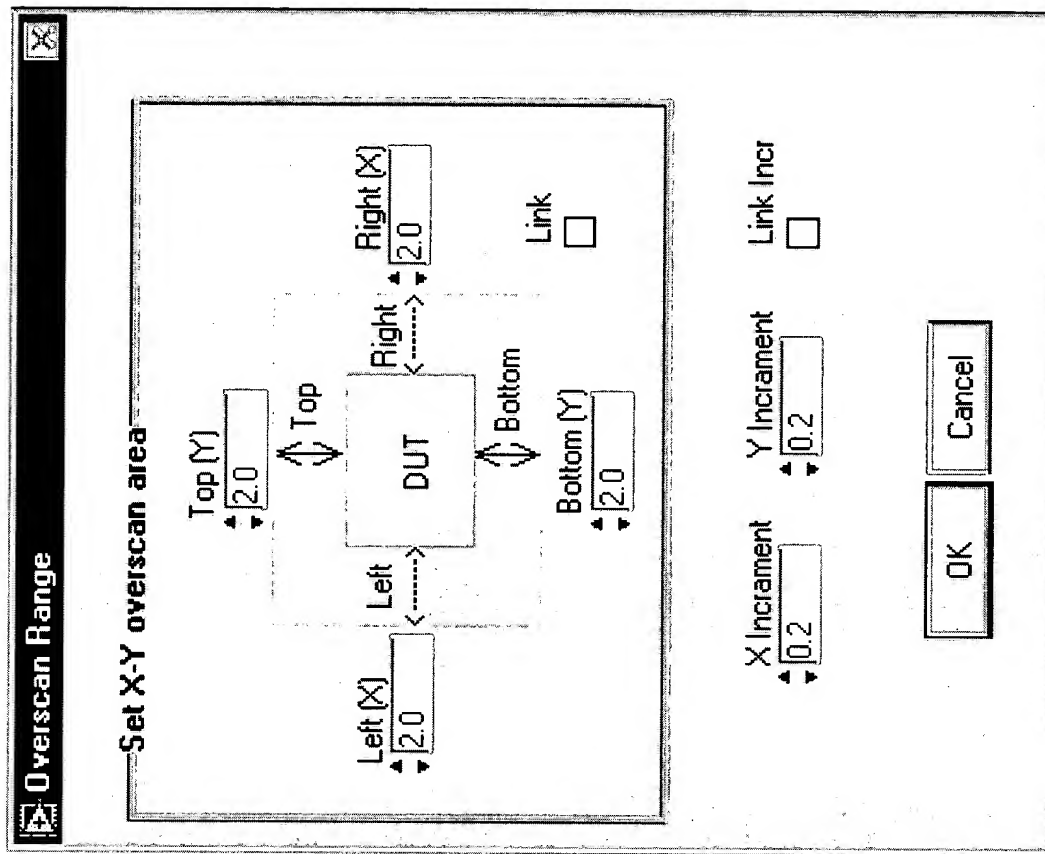
$$CF = 101.334846 - (0.19858186 * f) + (0.00048578 * f^2) - (5.7022E-7) * (f^3) + (3.0722E-10)$$

Cancel

OK

FIG. 49

FIG. 50



Z Axes Parameters

Enter Desired Z Axes Parameters

Maximum Height above DUT (mm)
20.00

Minimum Height above DUT (mm)
6.32

Number of Planes
3

Offset between Limit Switch Position & DUT (mm)
2.00
Use Limit Switch

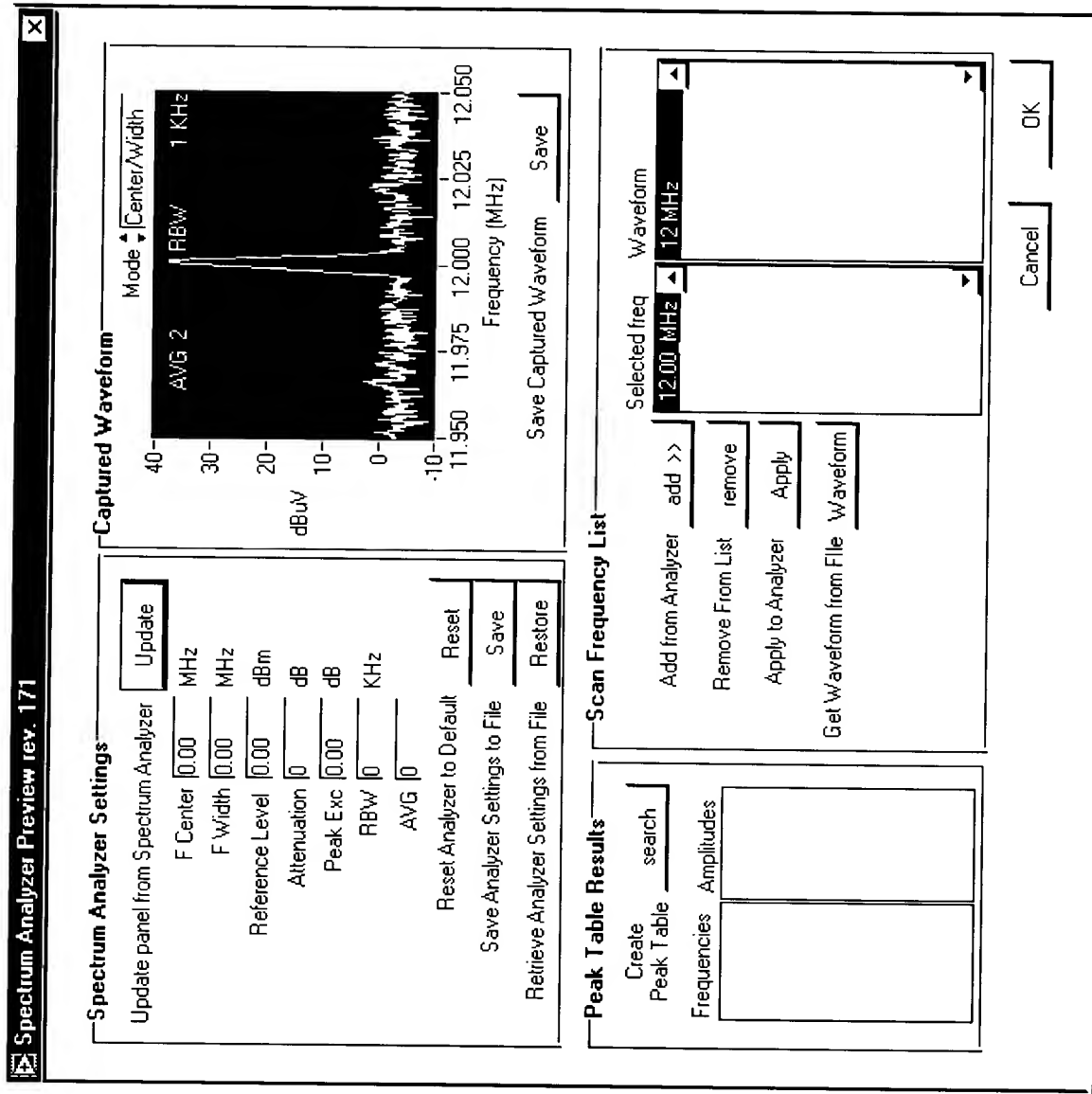
mm per Plane
6.84

Cancel
OK

The diagram illustrates the Z Axes Parameters. It shows a vertical axis with a 'Limit Switch' at the bottom and a 'DUT' (Device Under Test) above it. The 'Offset' is the distance between the Limit Switch and the DUT. The 'Maximum Height' is the distance from the Limit Switch to the top of the DUT. The 'Minimum Height' is the distance from the Limit Switch to the bottom of the DUT. The 'Number of Planes' is the number of planes between the Limit Switch and the DUT. The 'mm per Plane' is the distance between each plane.

FIG. 51

FIG. 52



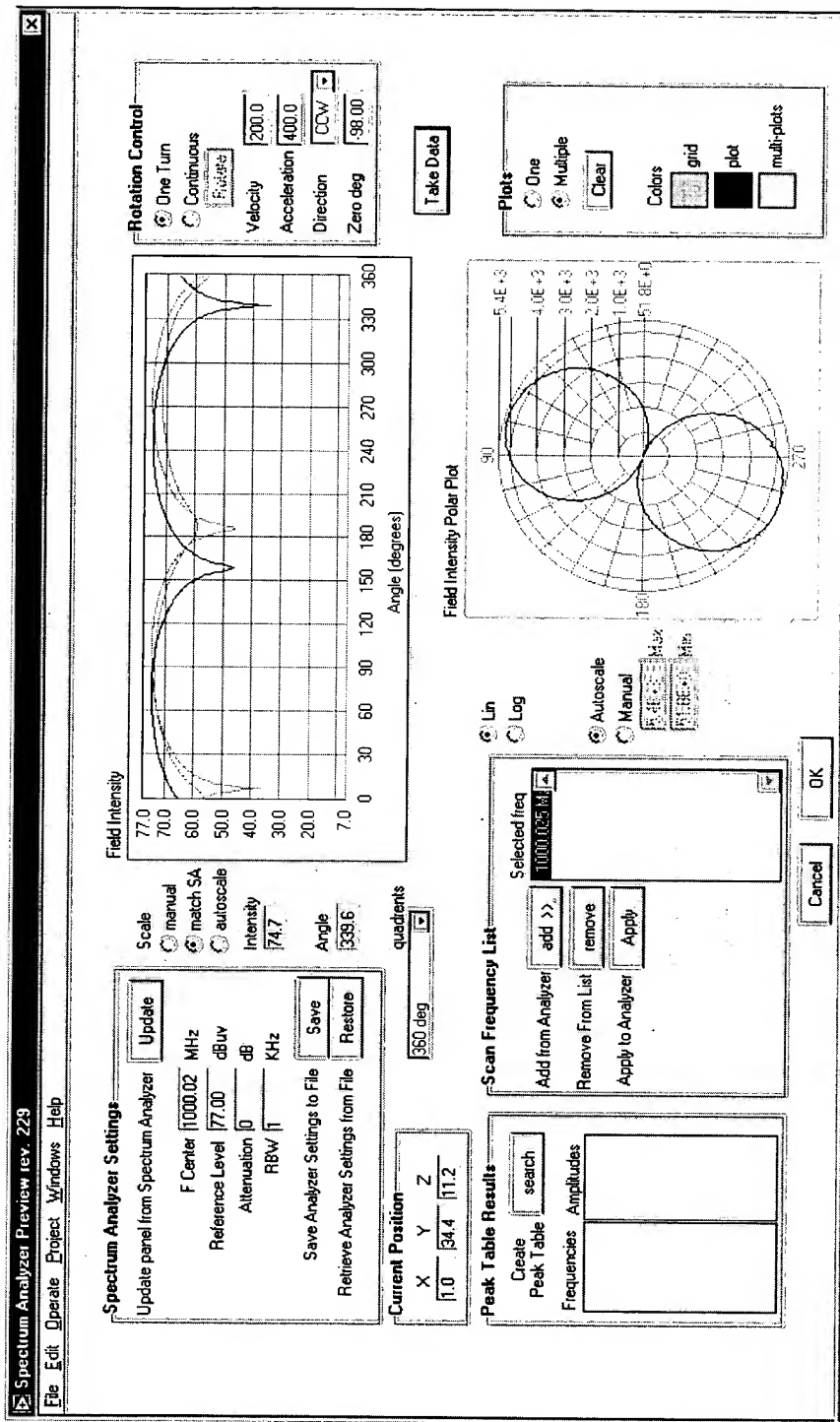


FIG. 53

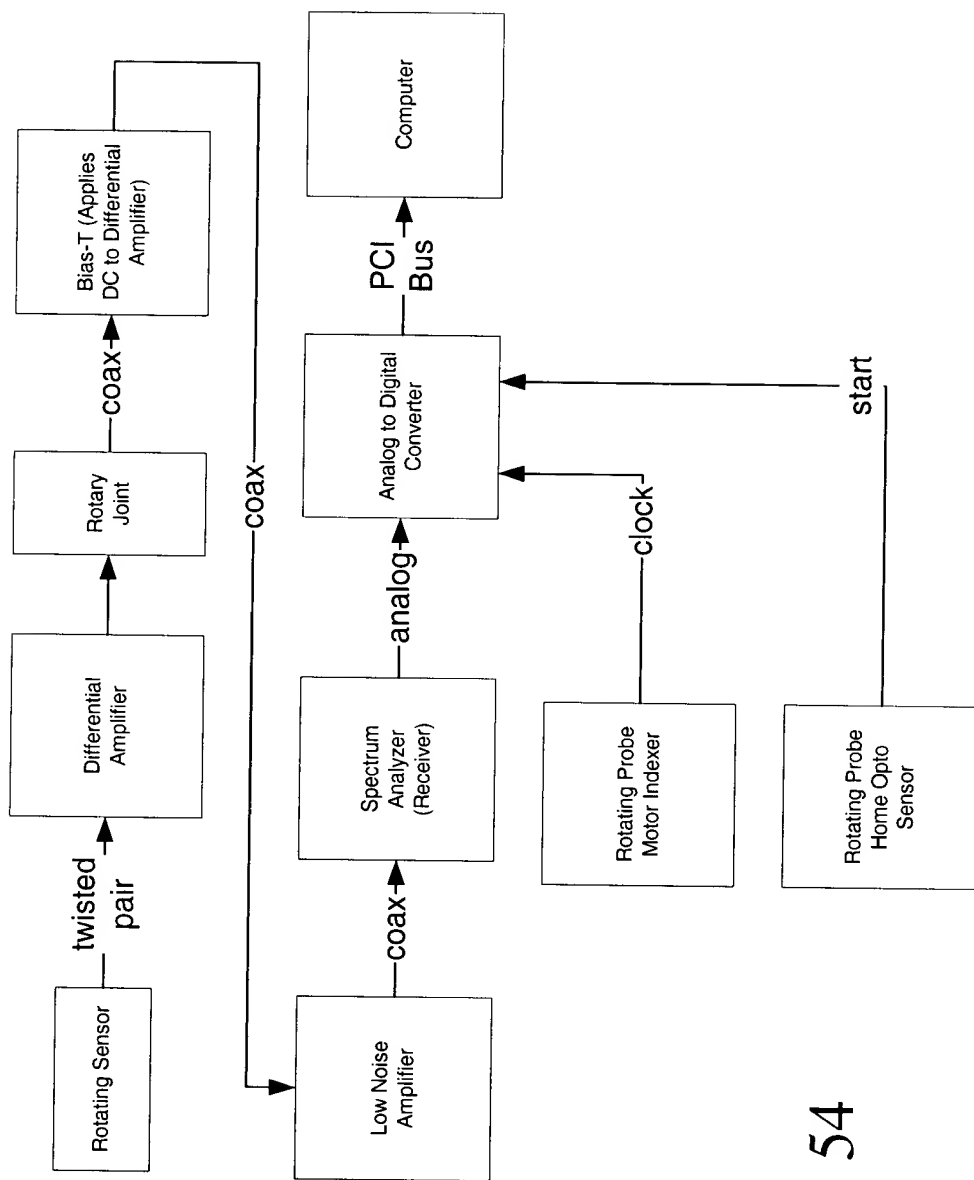


FIG. 54

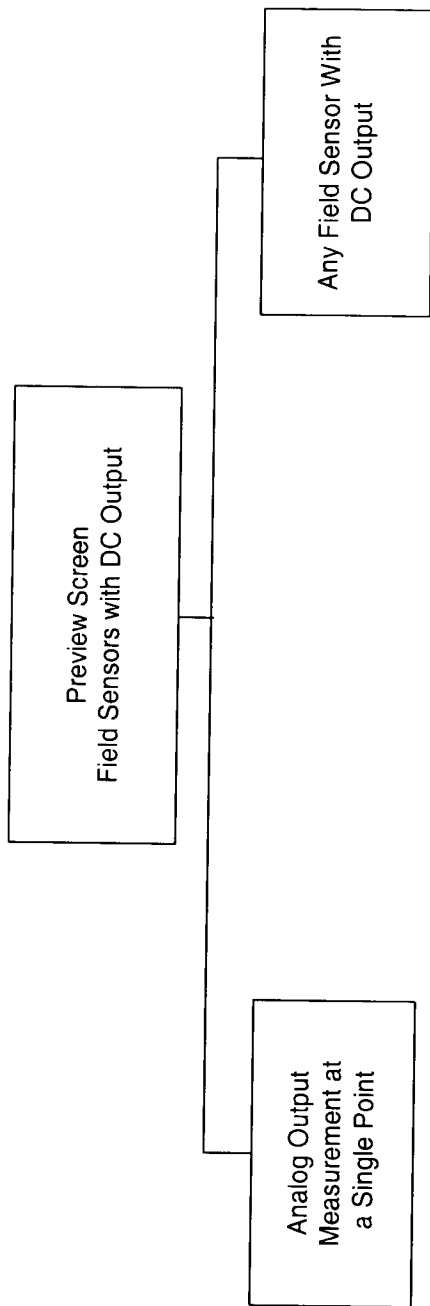


FIG. 55

FOR CH260

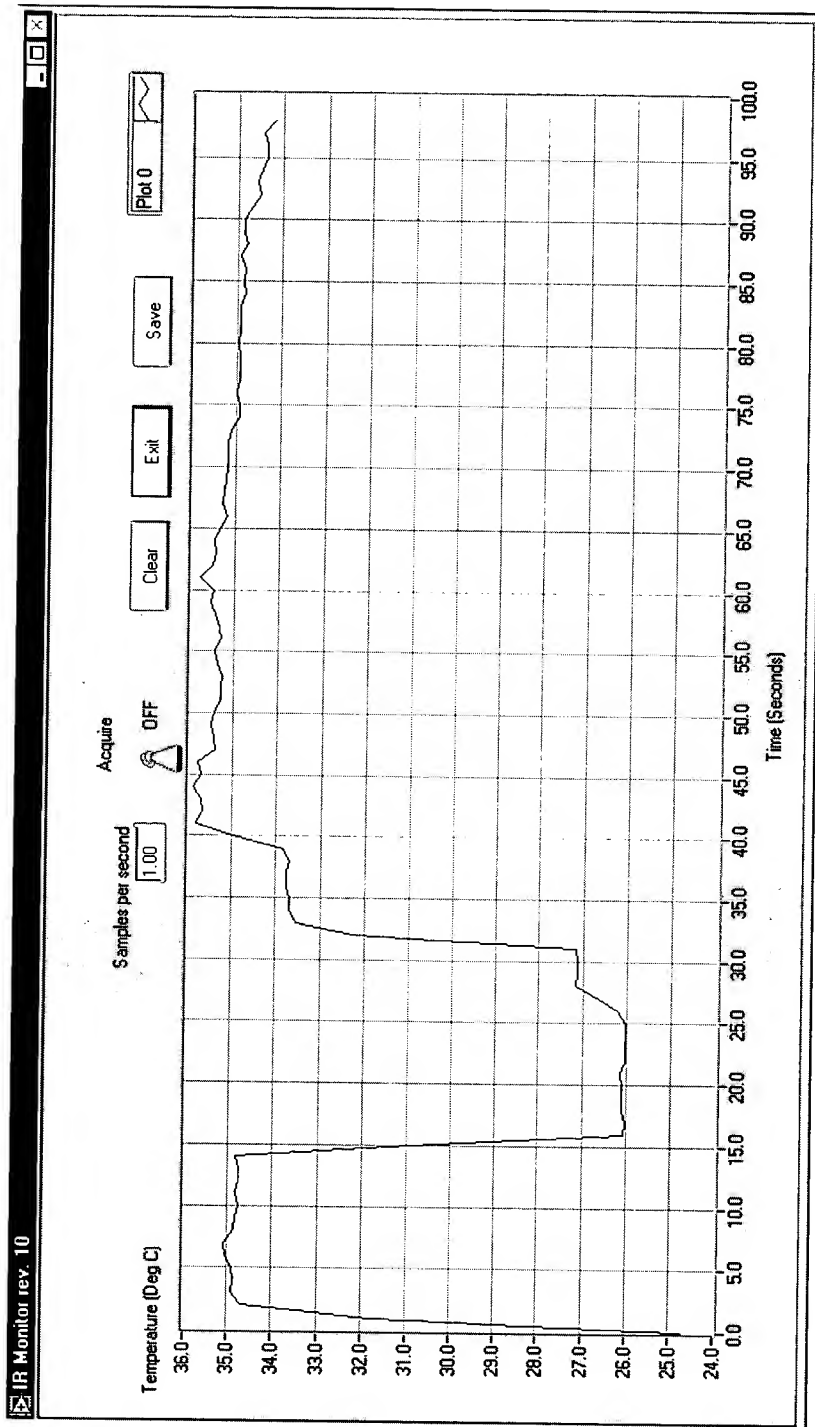


FIG. 56

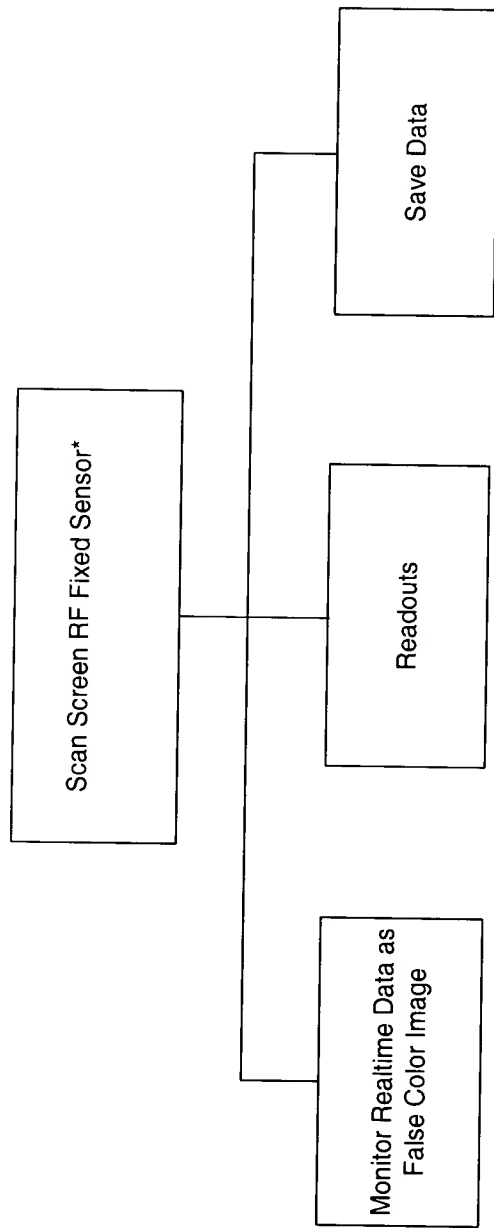


FIG. 58

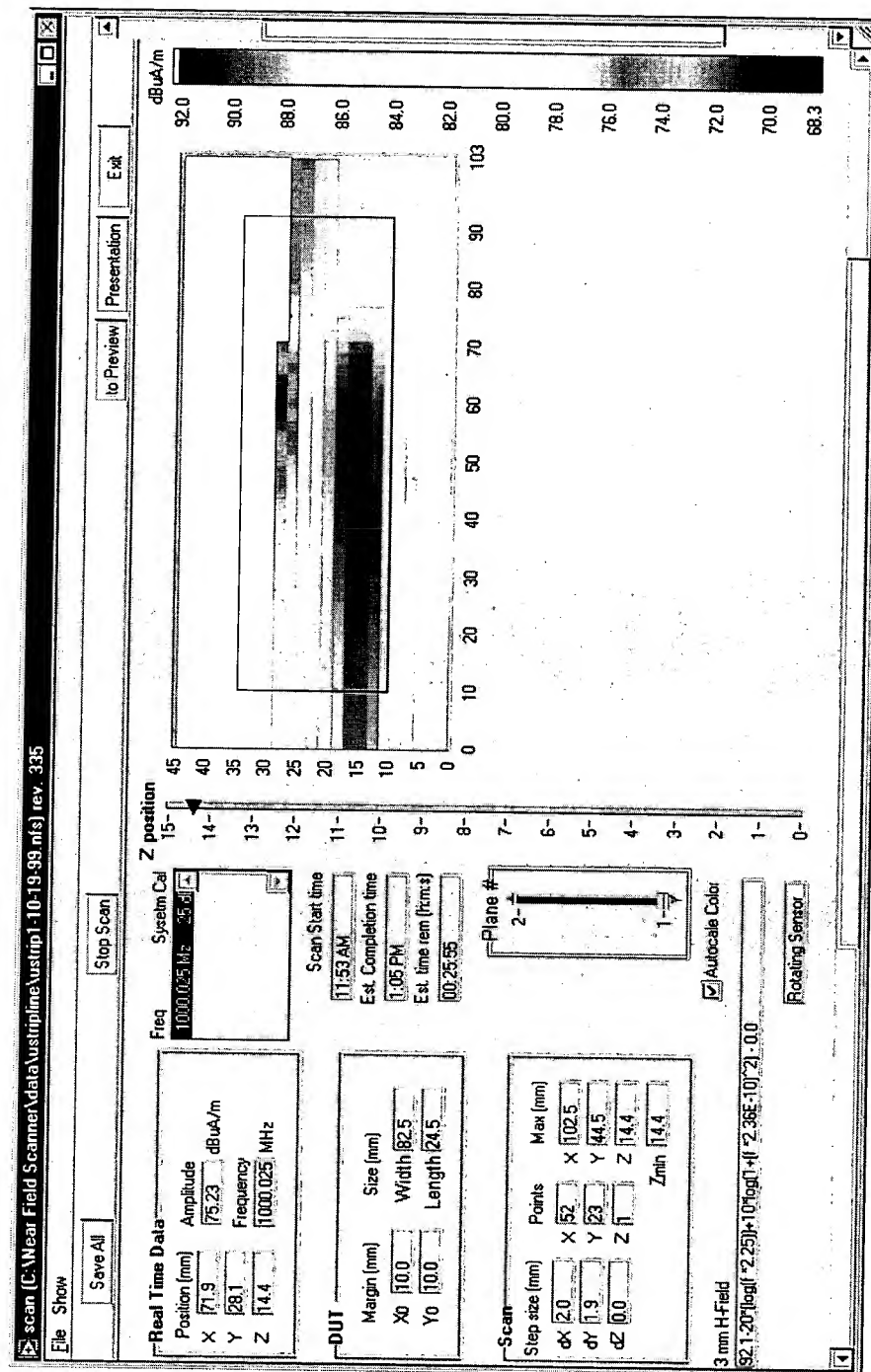
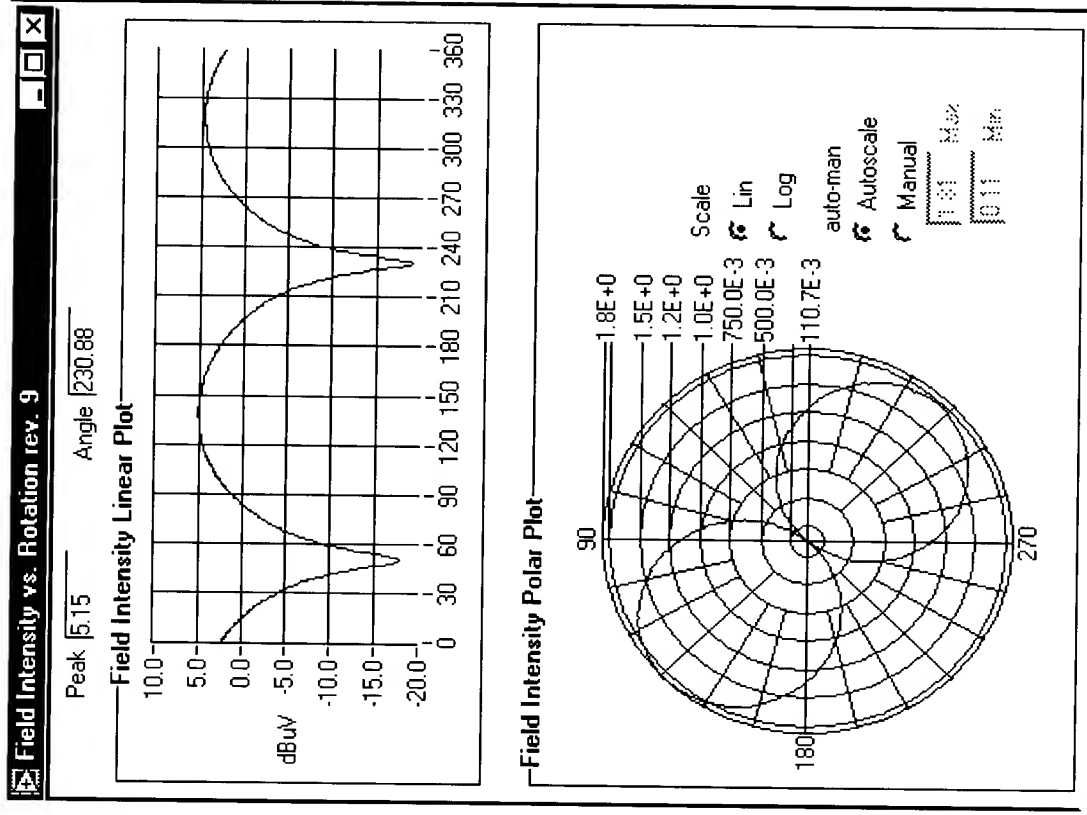
[illegible]

FIG. 59

FIG. 60



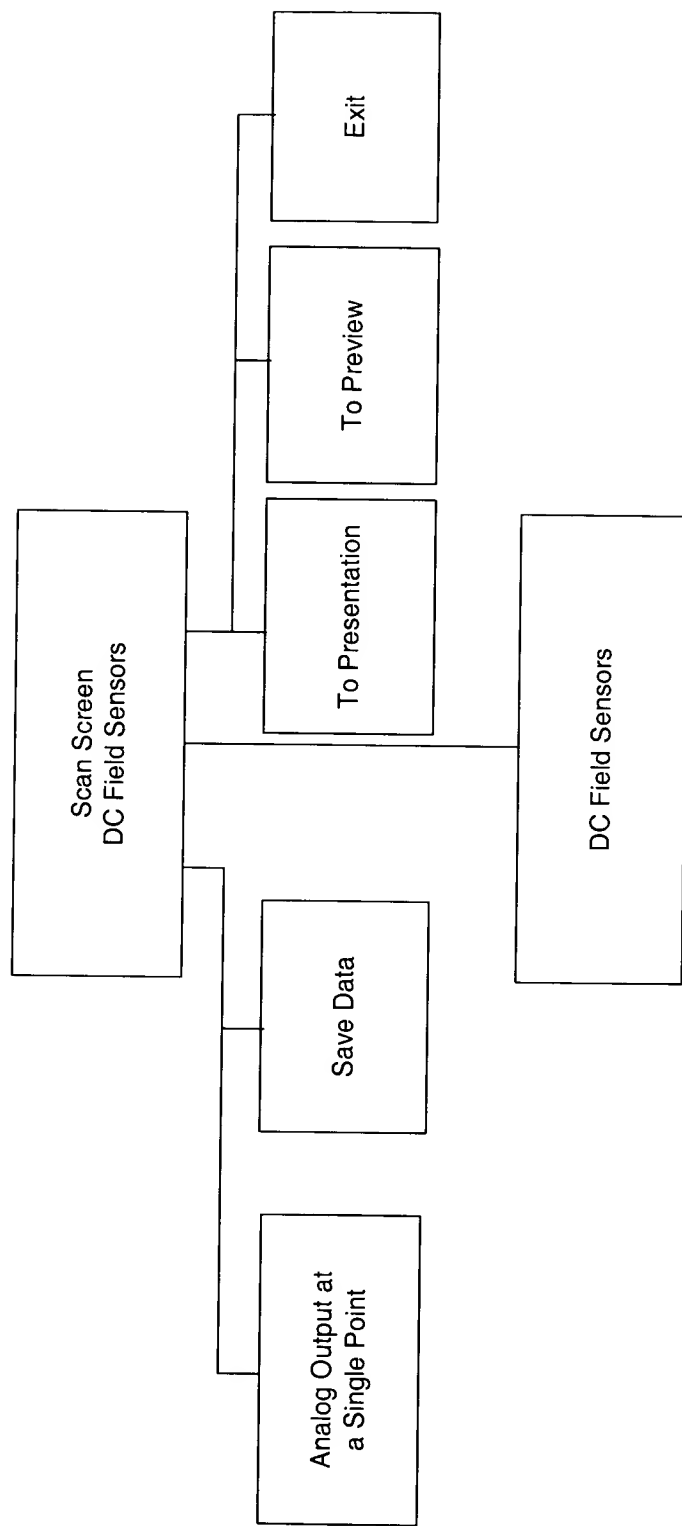


FIG. 61

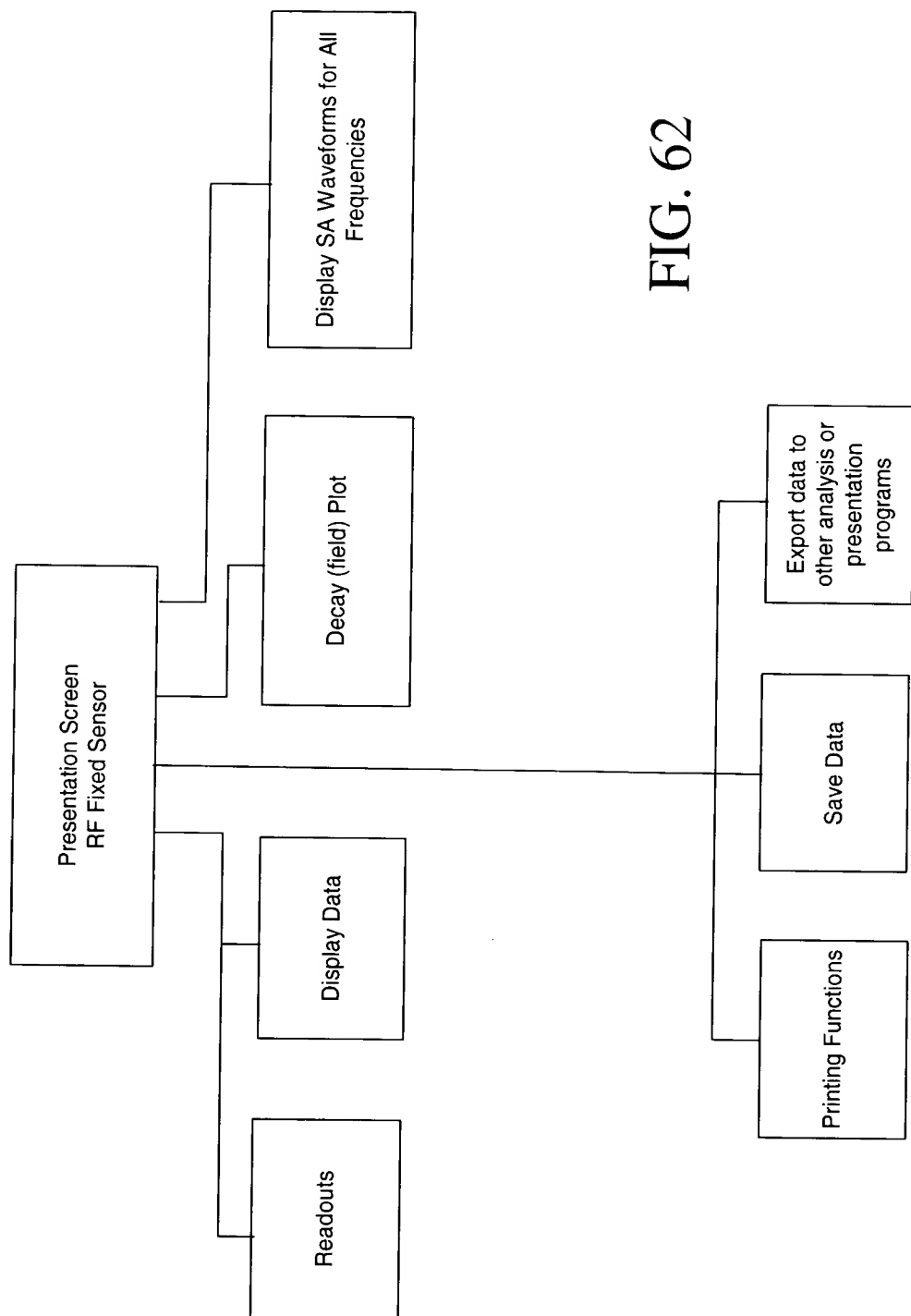


FIG. 62

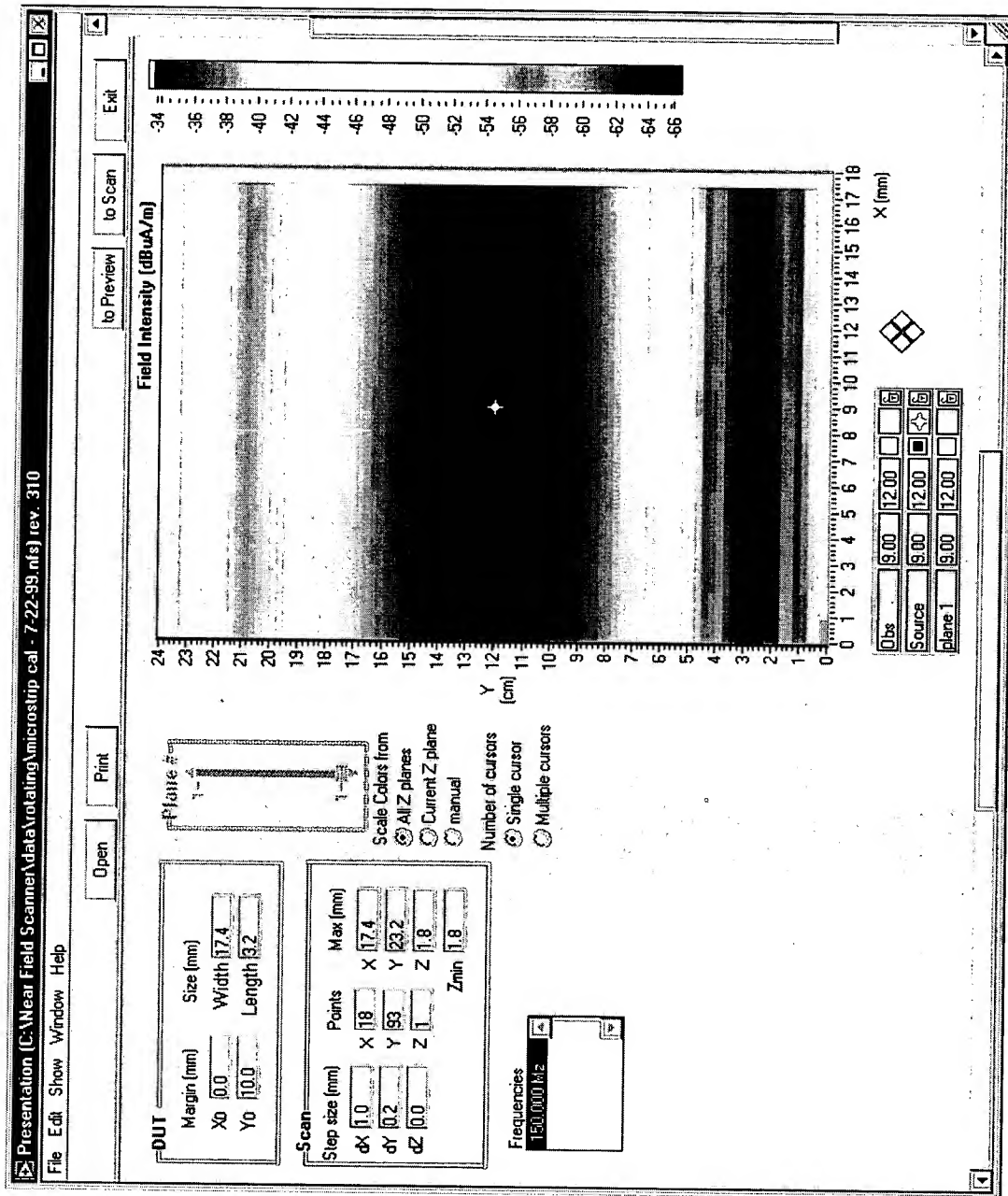
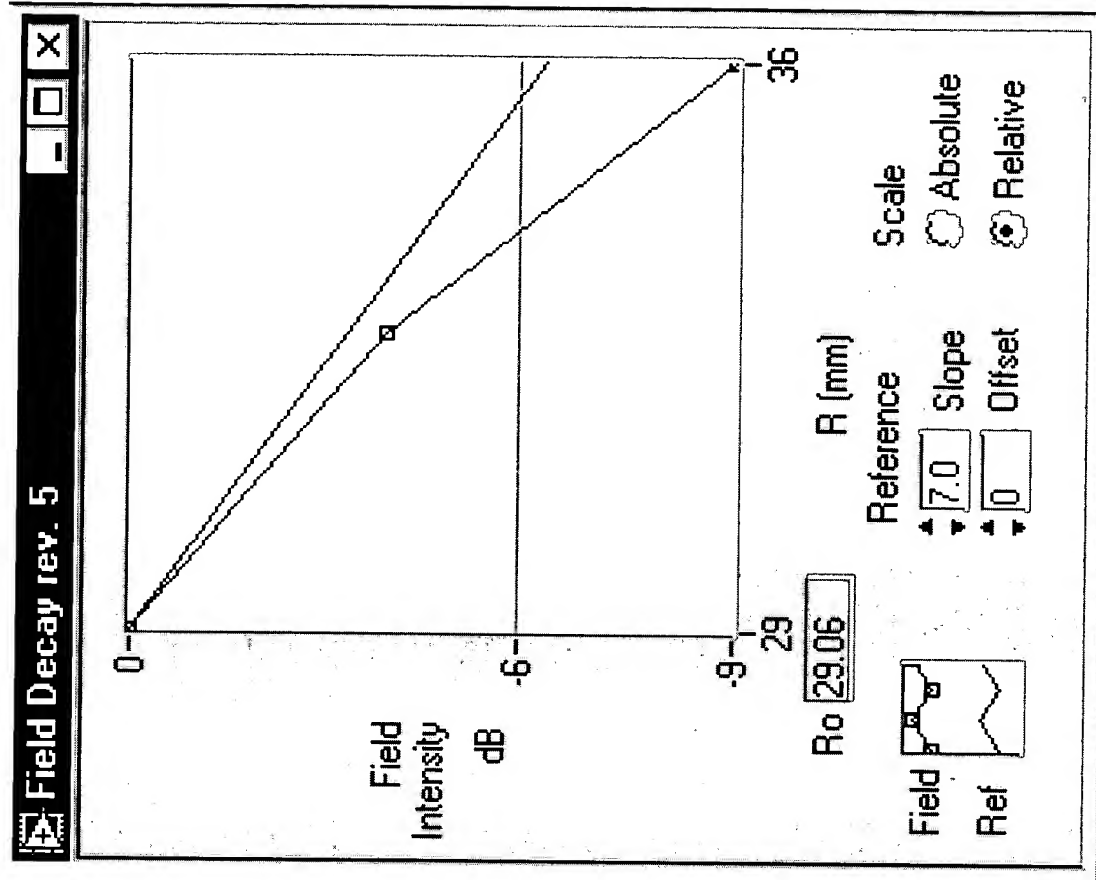


FIG. 63

FIG. 64



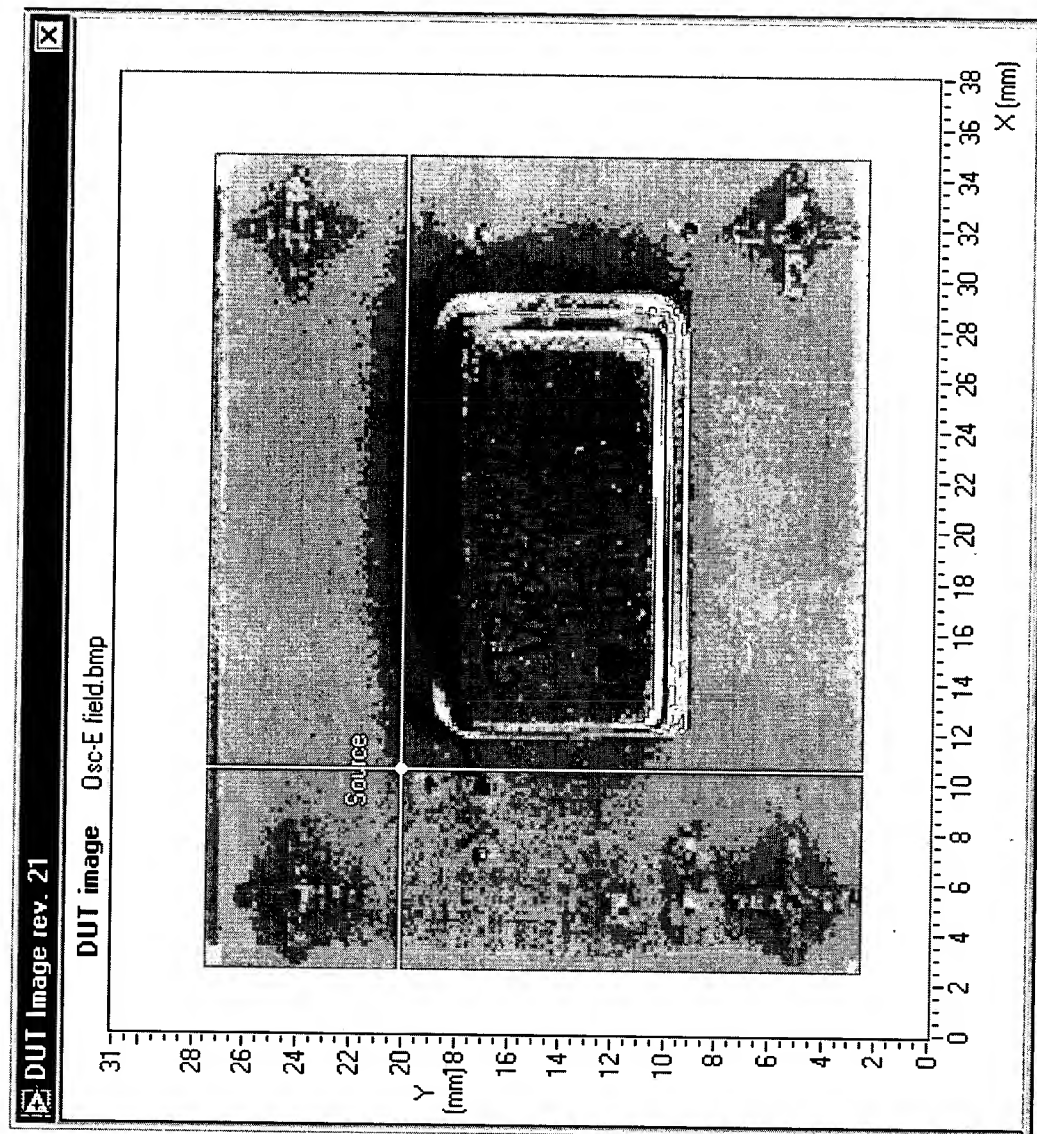
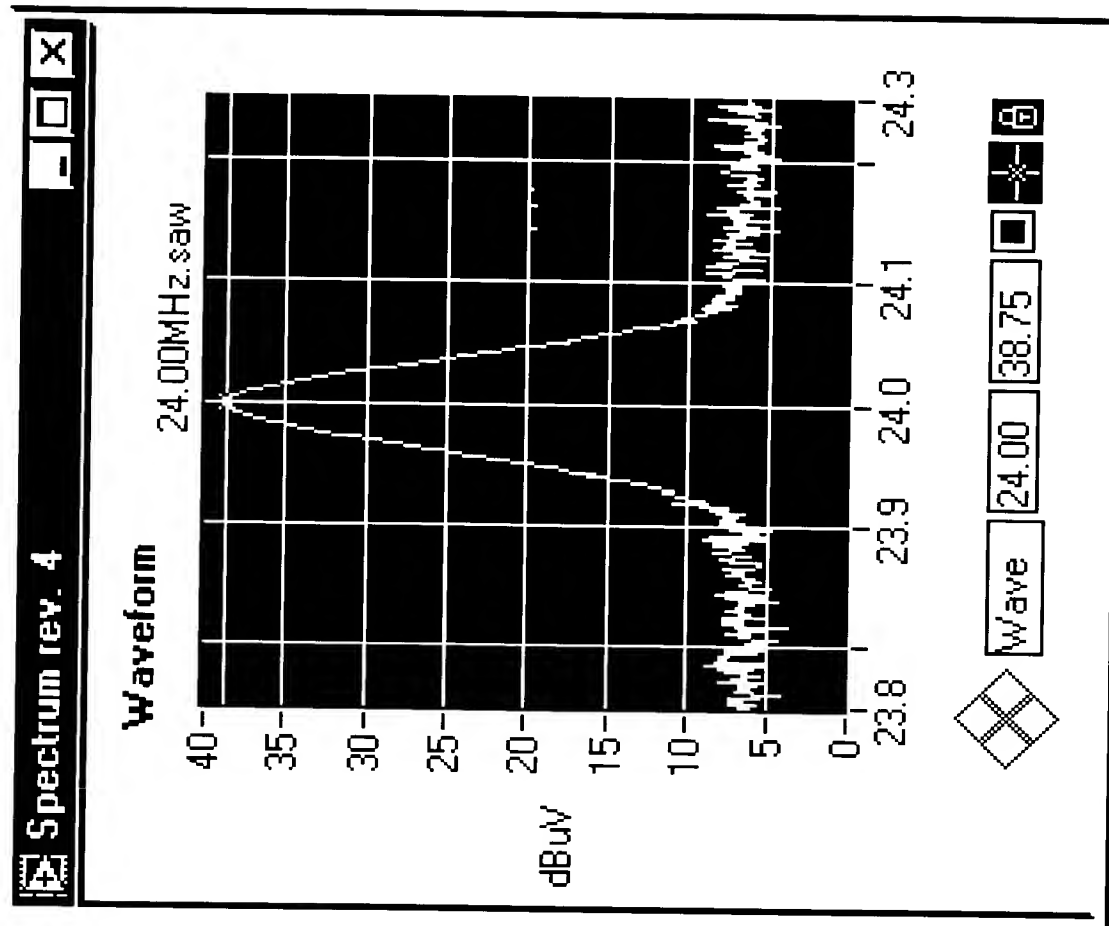


FIG. 65

FIG. 66



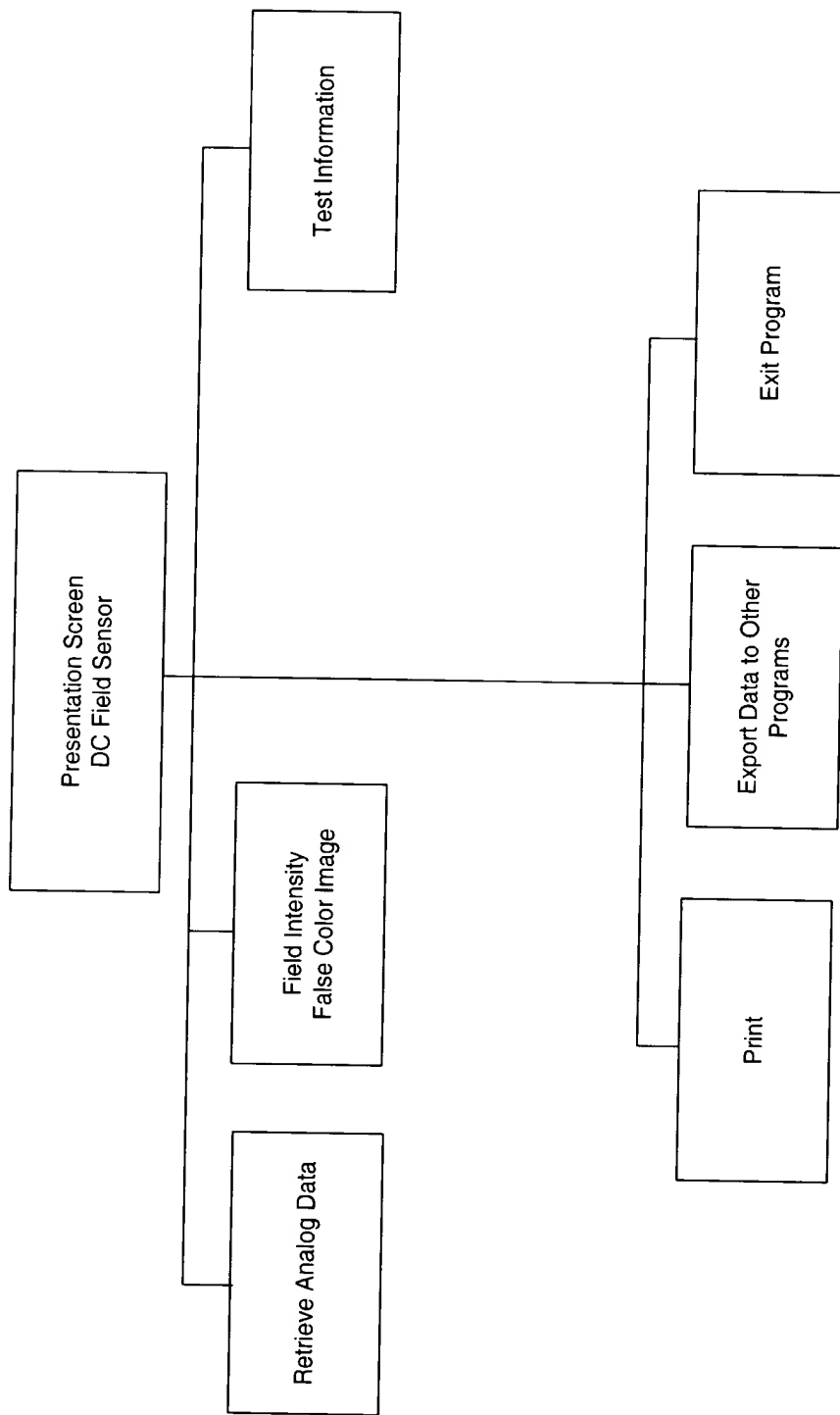


FIG. 67

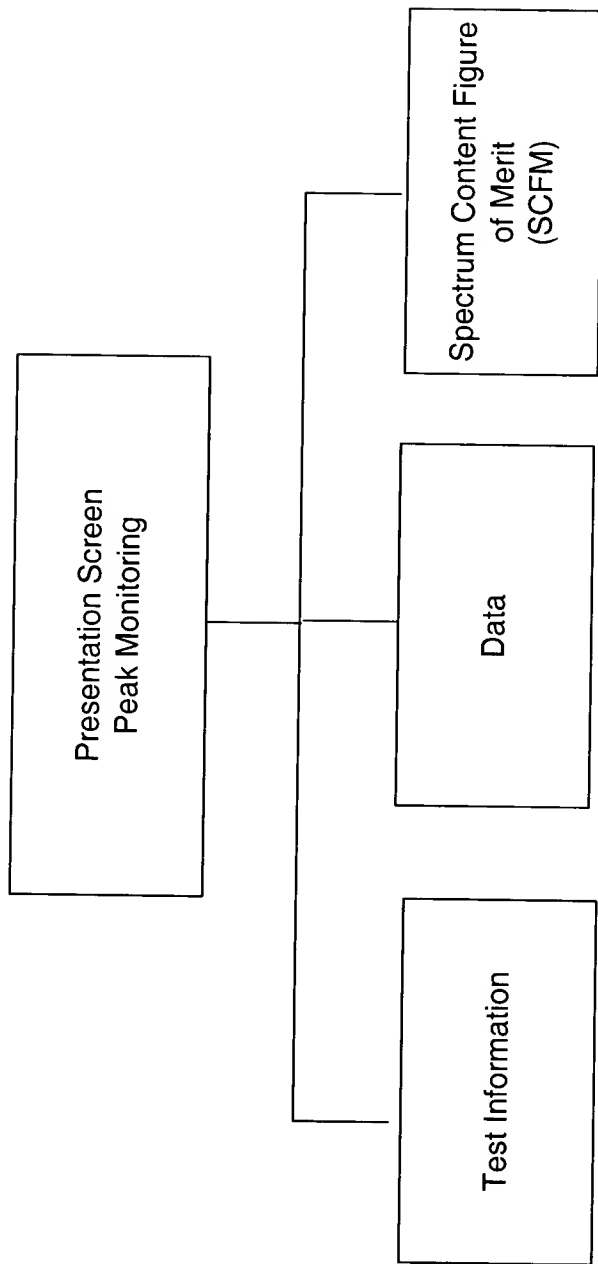


FIG. 68

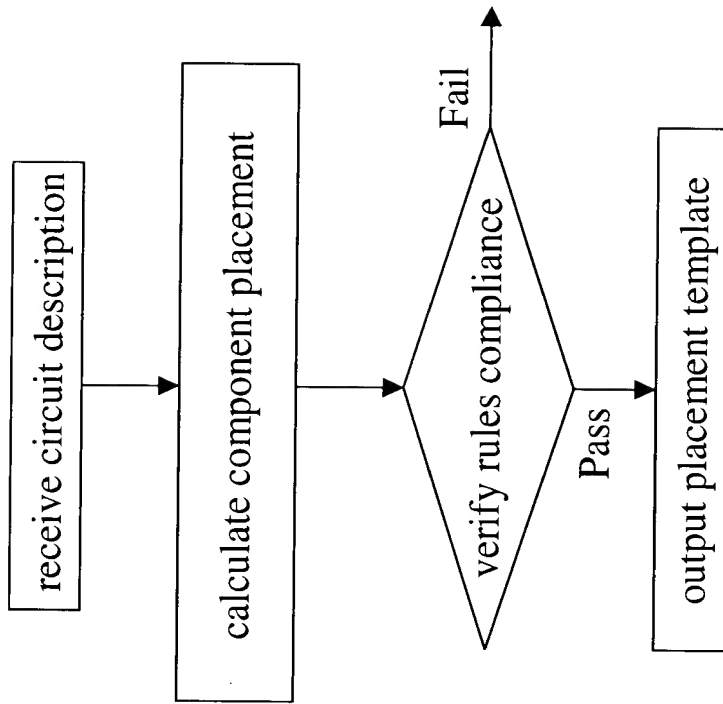


FIG. 70 (RELATED ART)

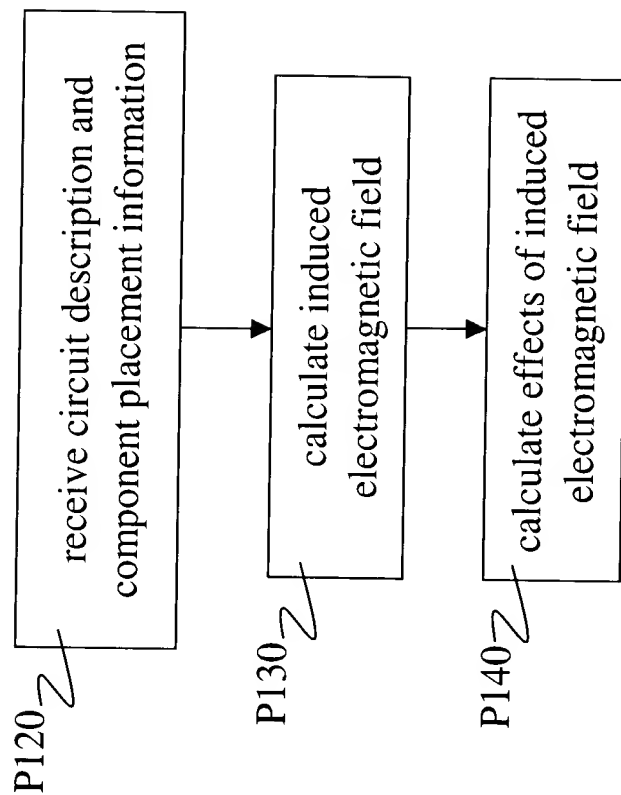


FIG. 71

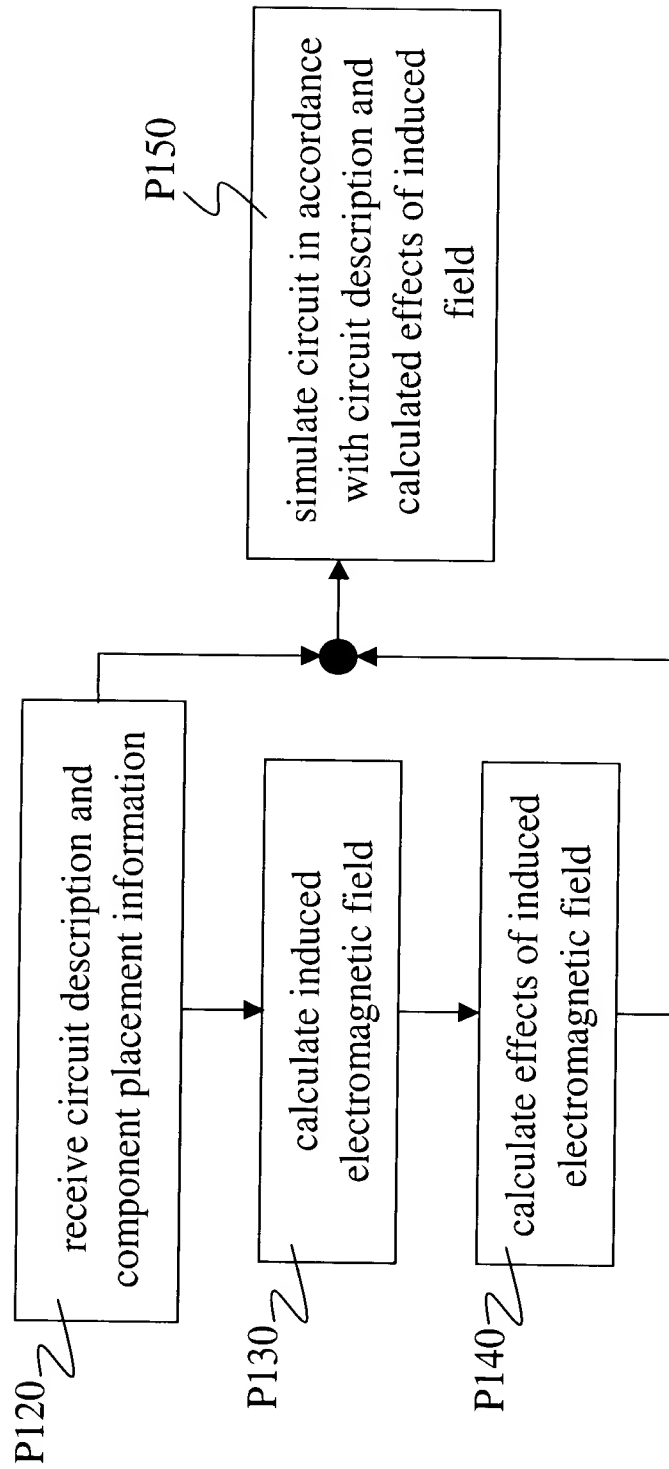


FIG. 72

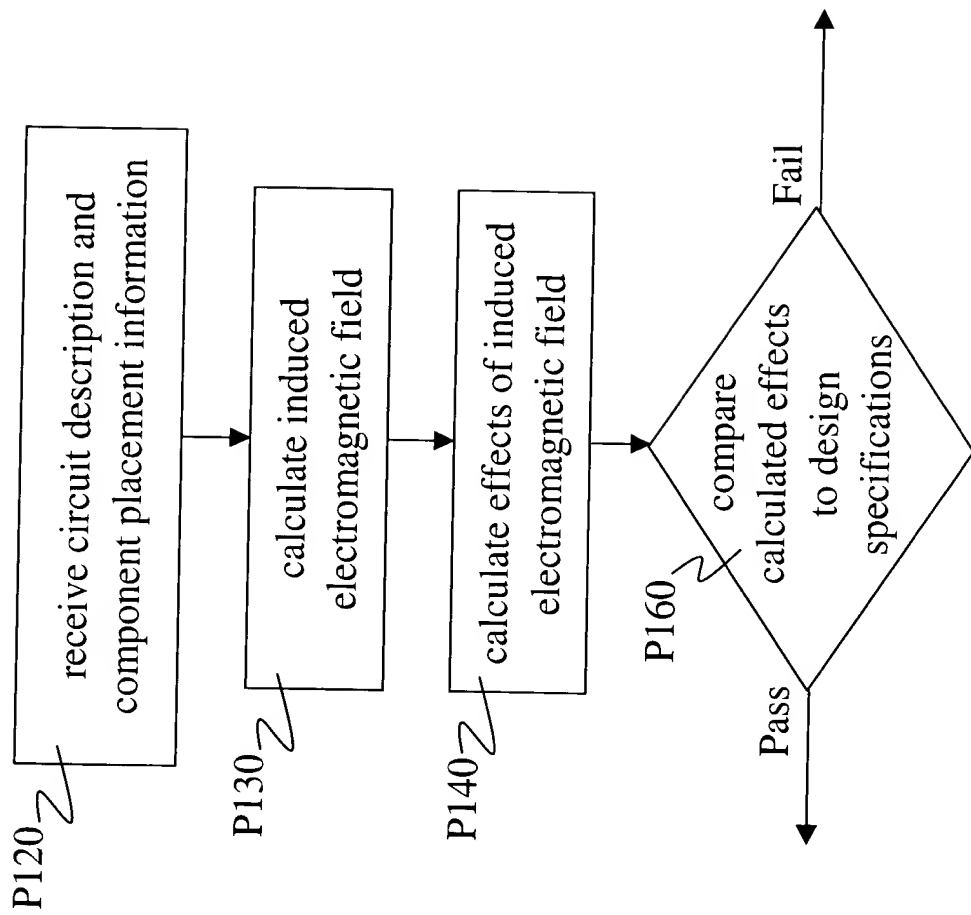


FIG. 73

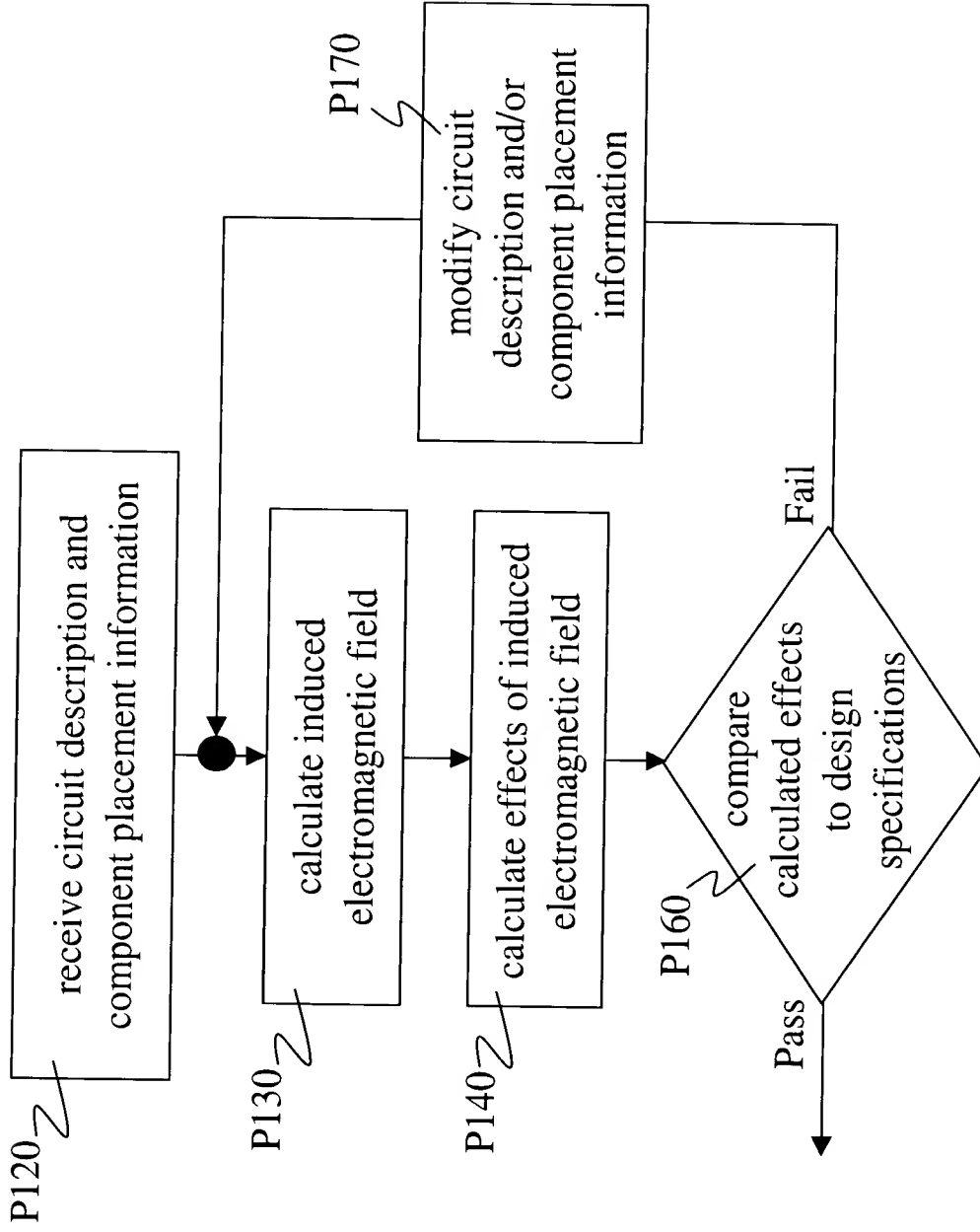


FIG. 74

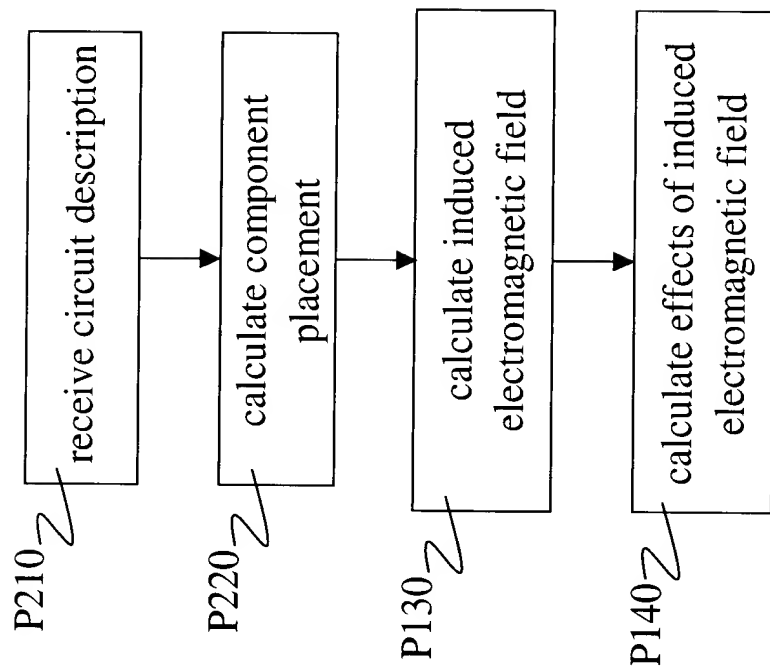


FIG. 75

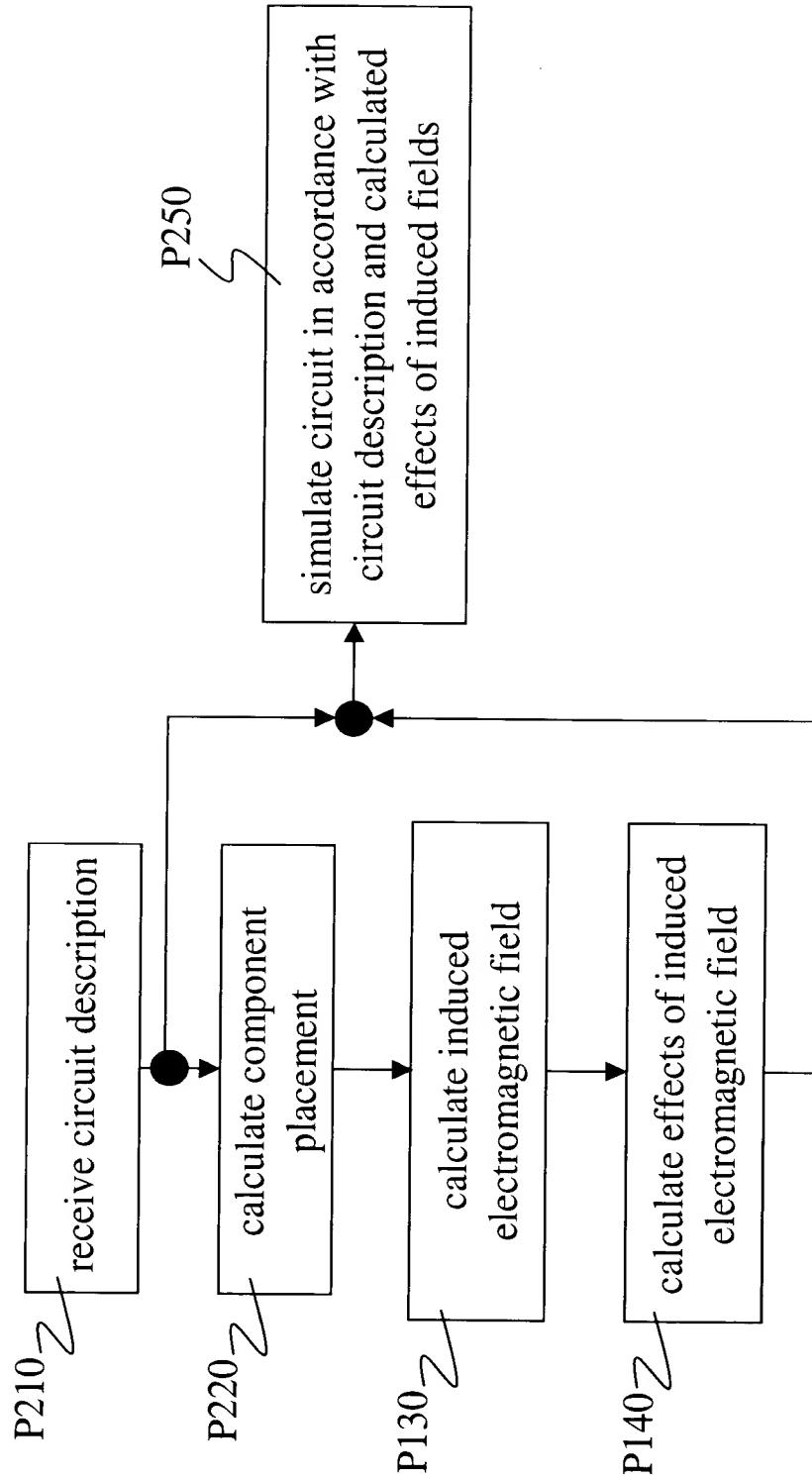


FIG. 76

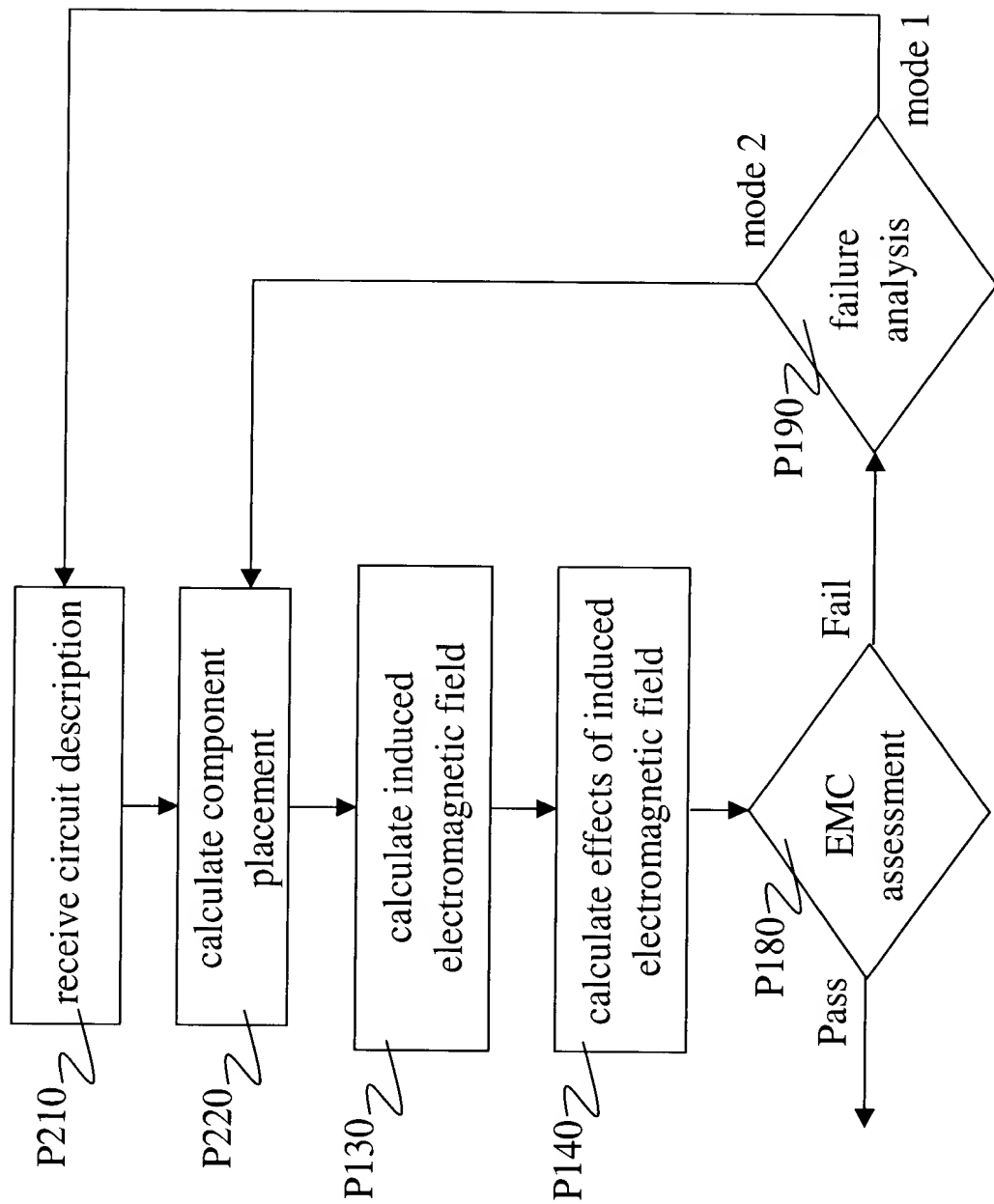


FIG. 77

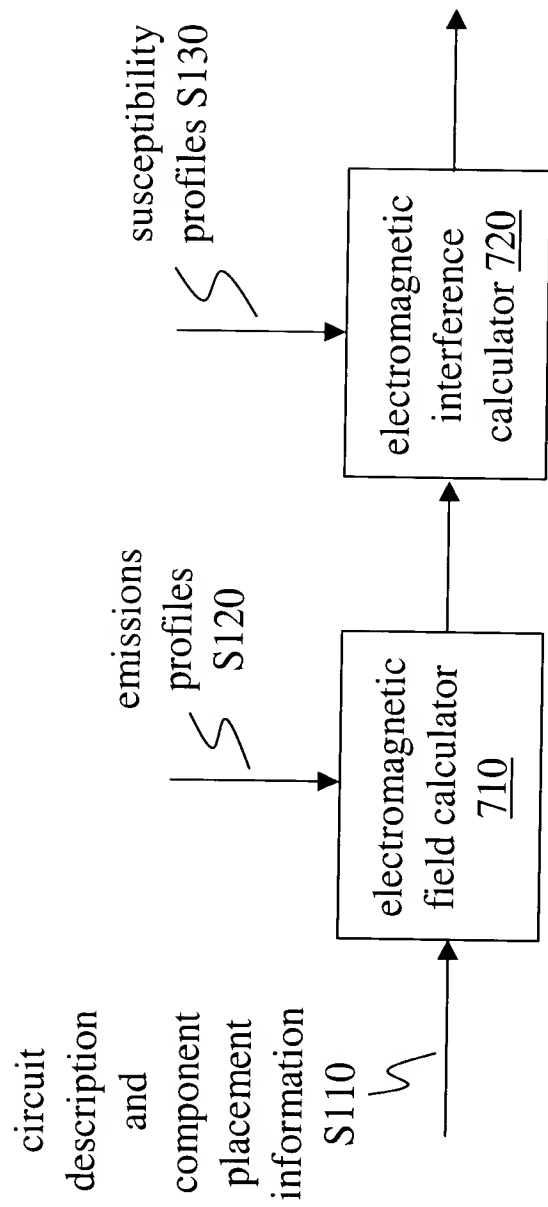


FIG. 78

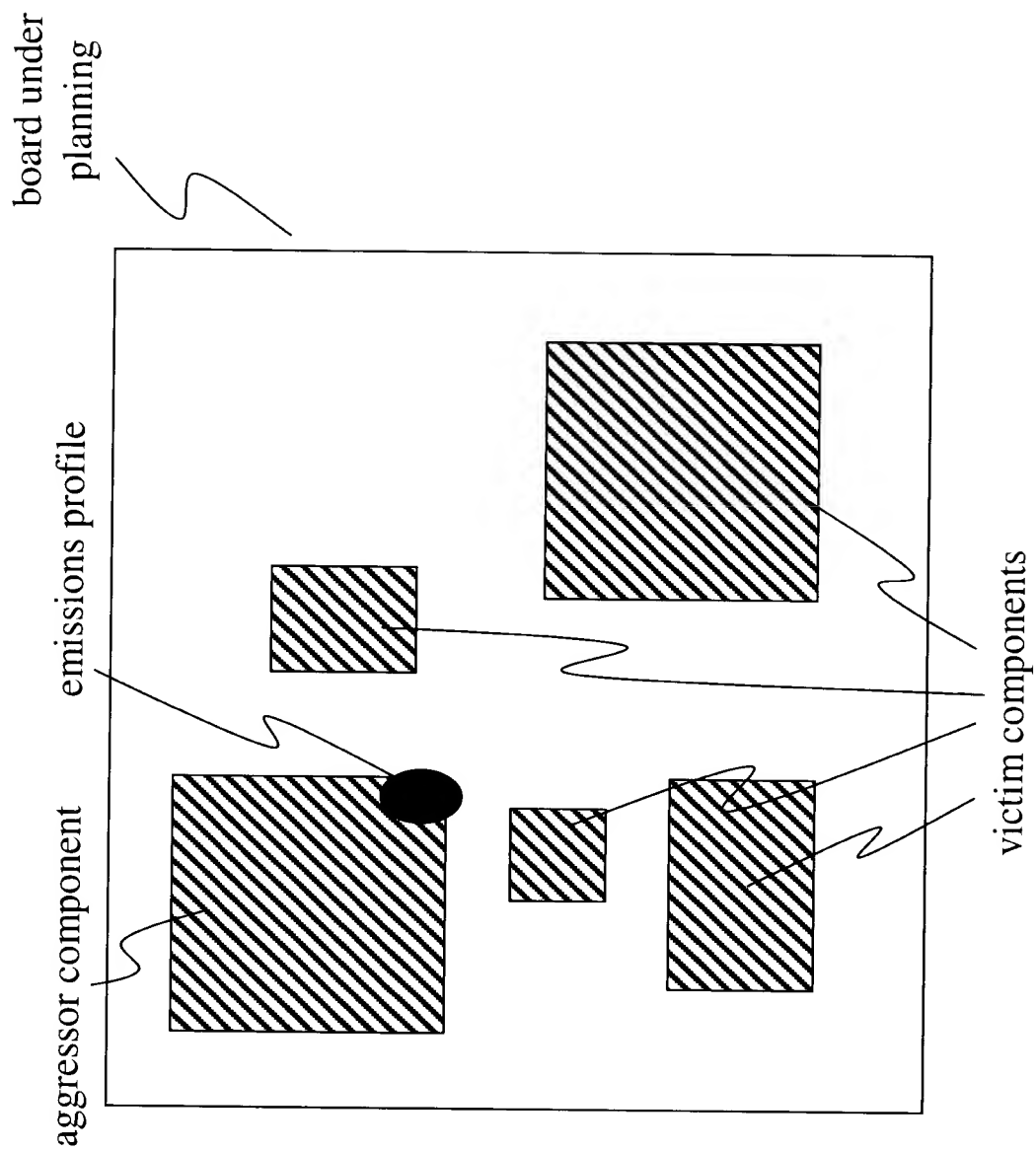


FIG. 79

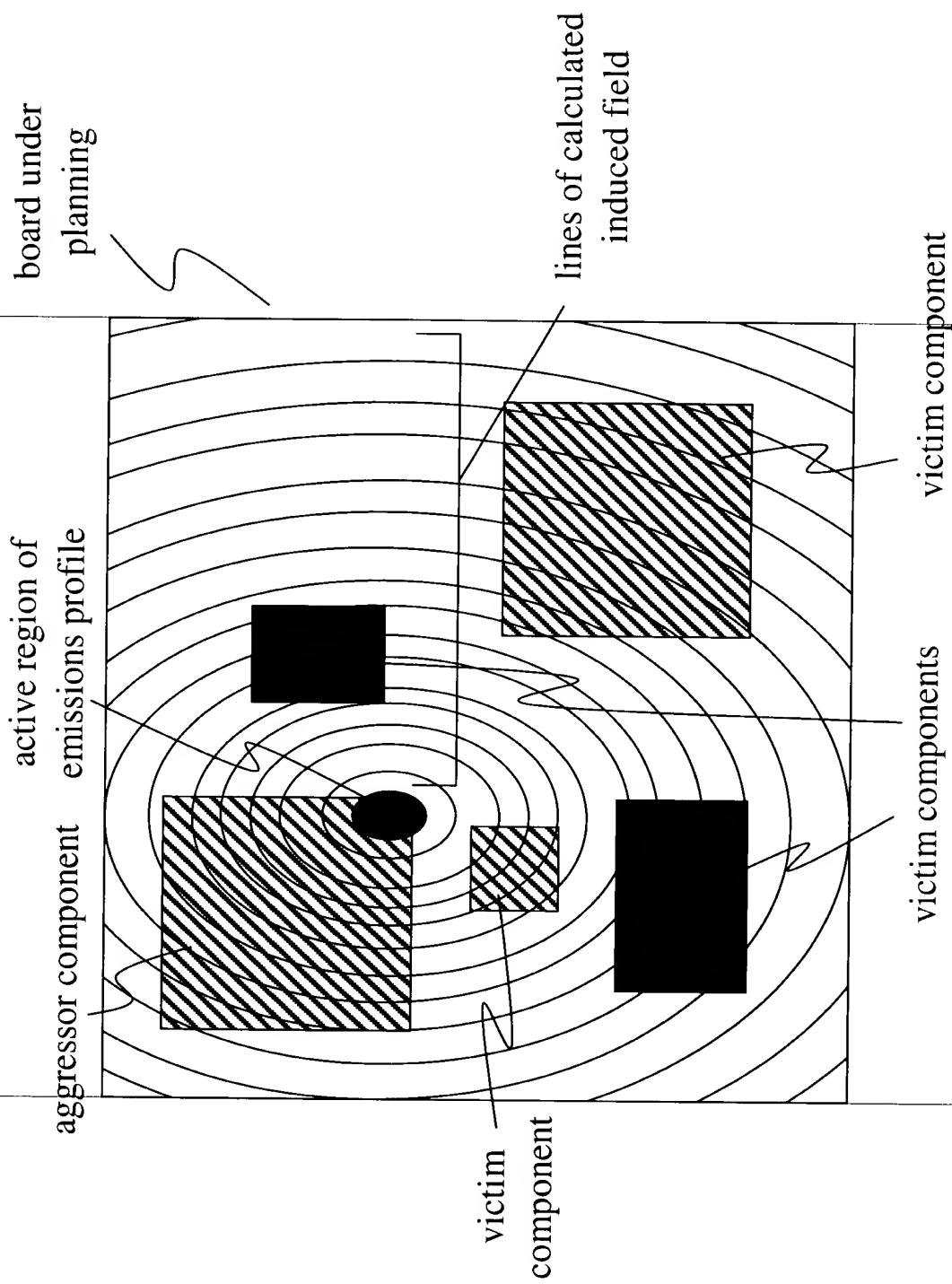


FIG. 80

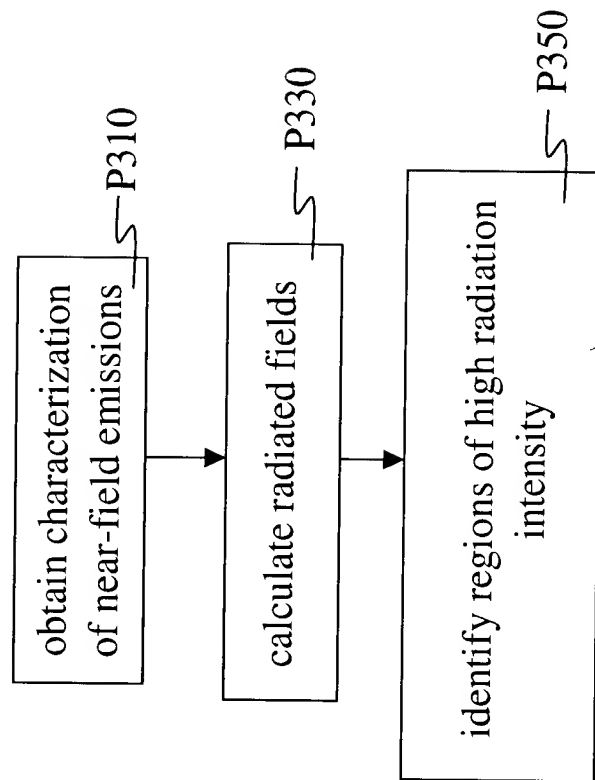


FIG. 81

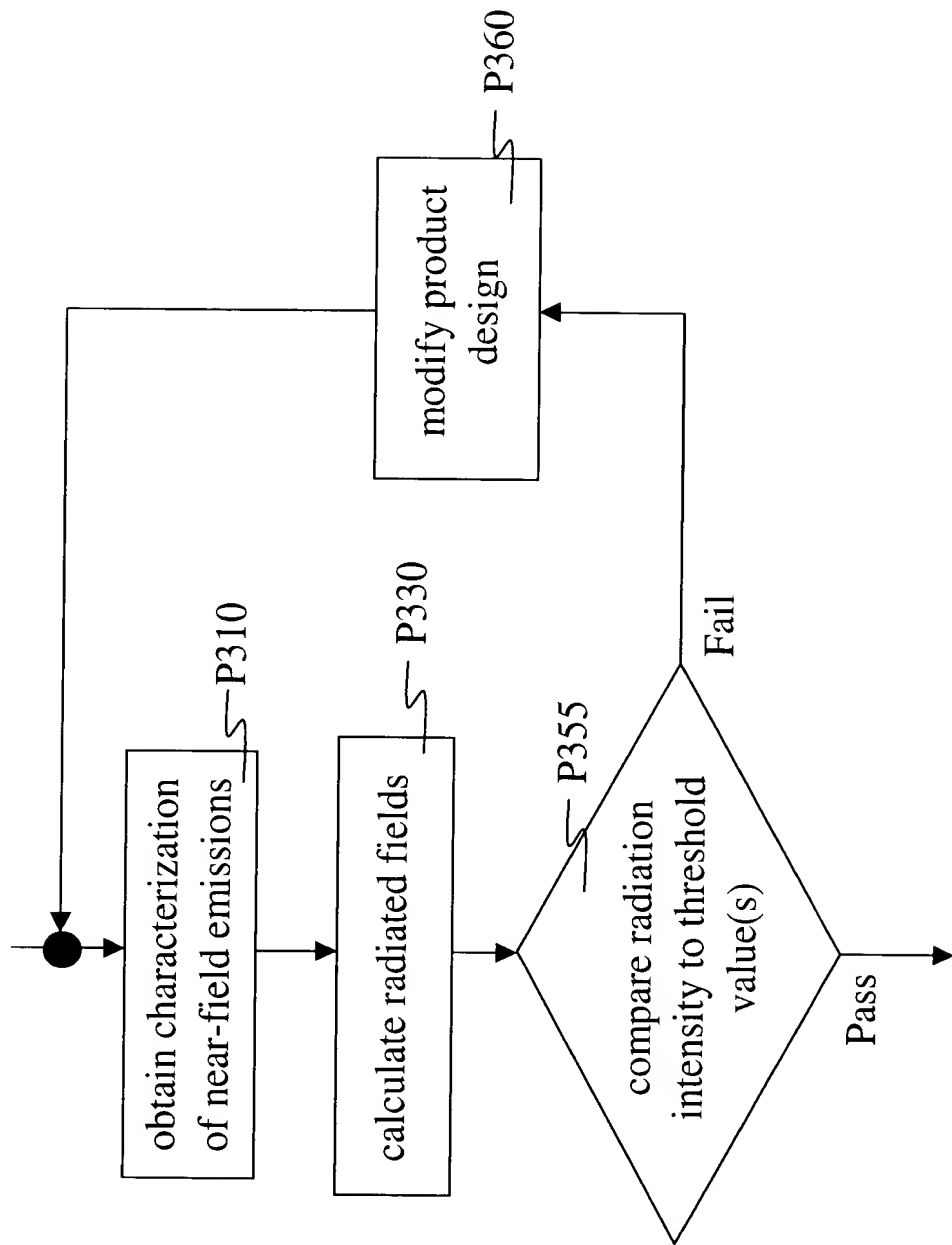


FIG. 82

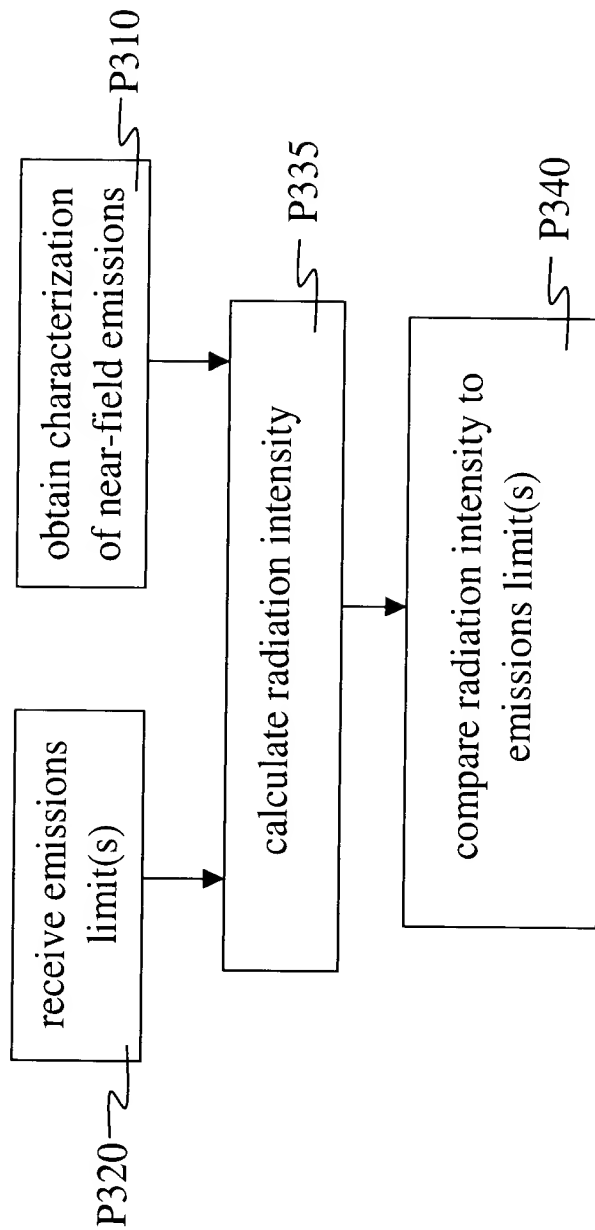


FIG. 83

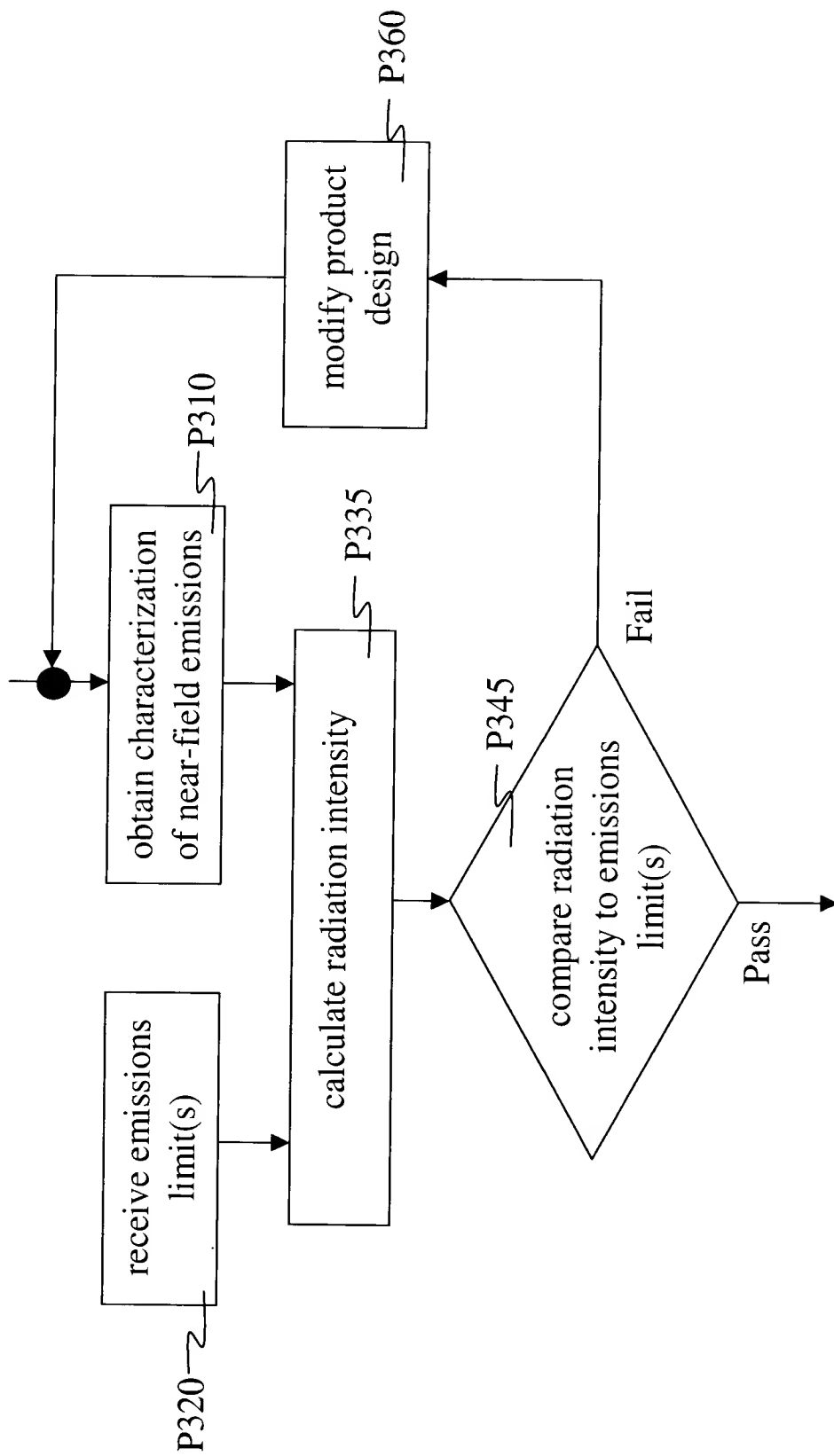


FIG. 84

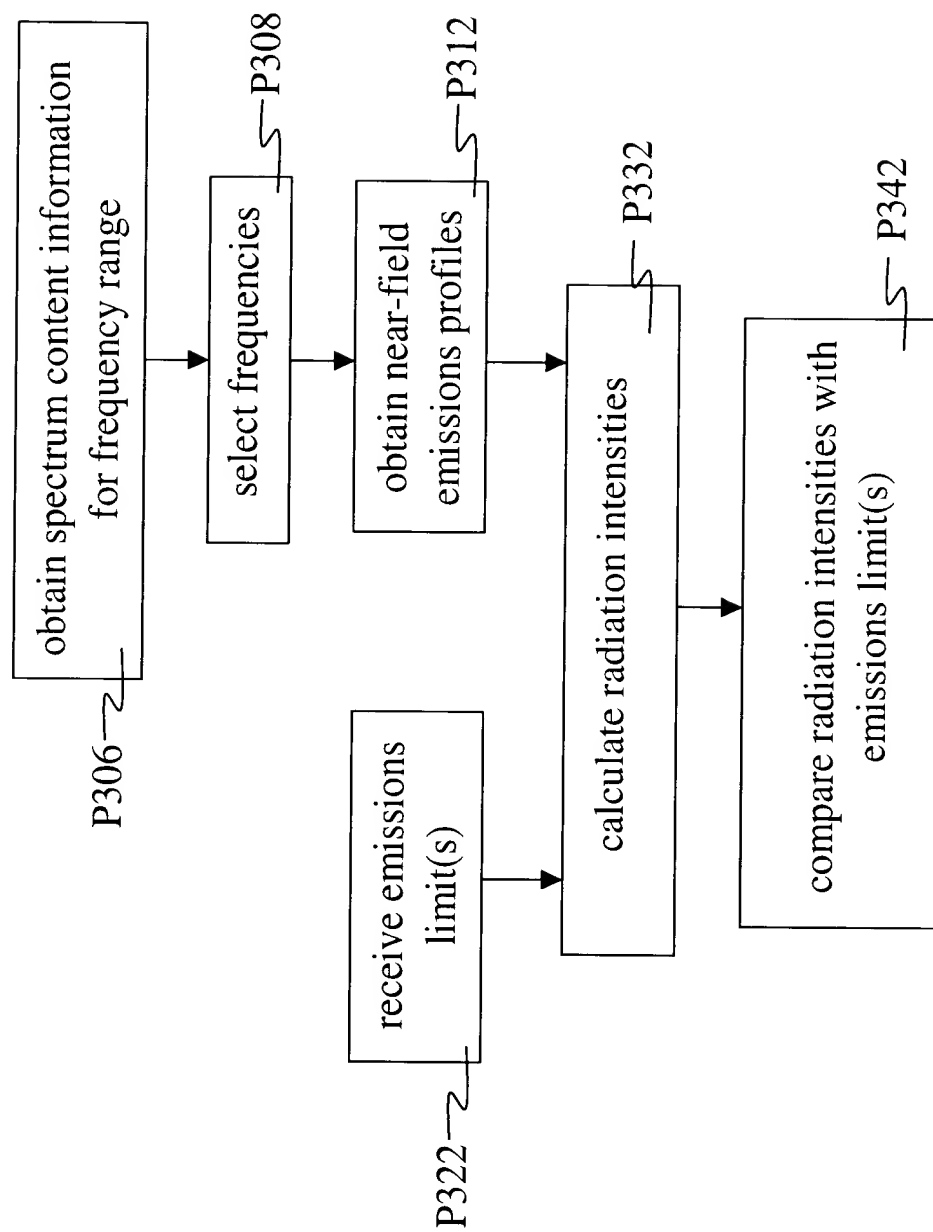


FIG. 85

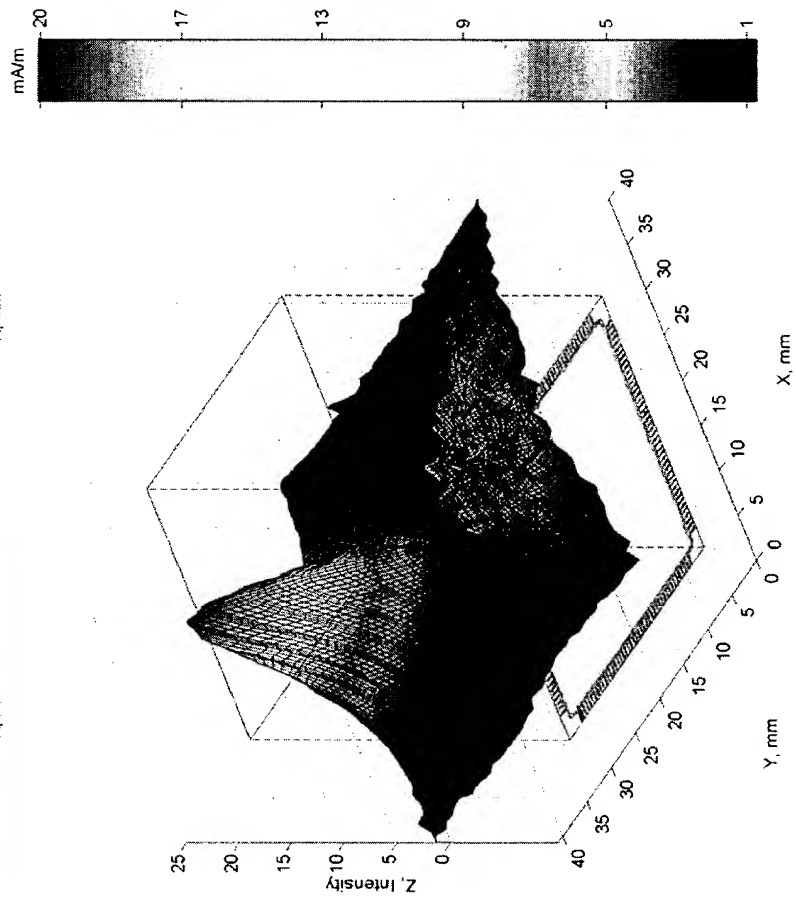
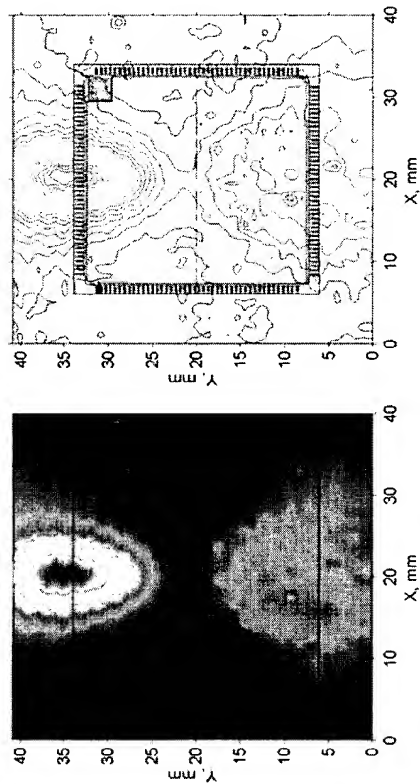


FIG. 86

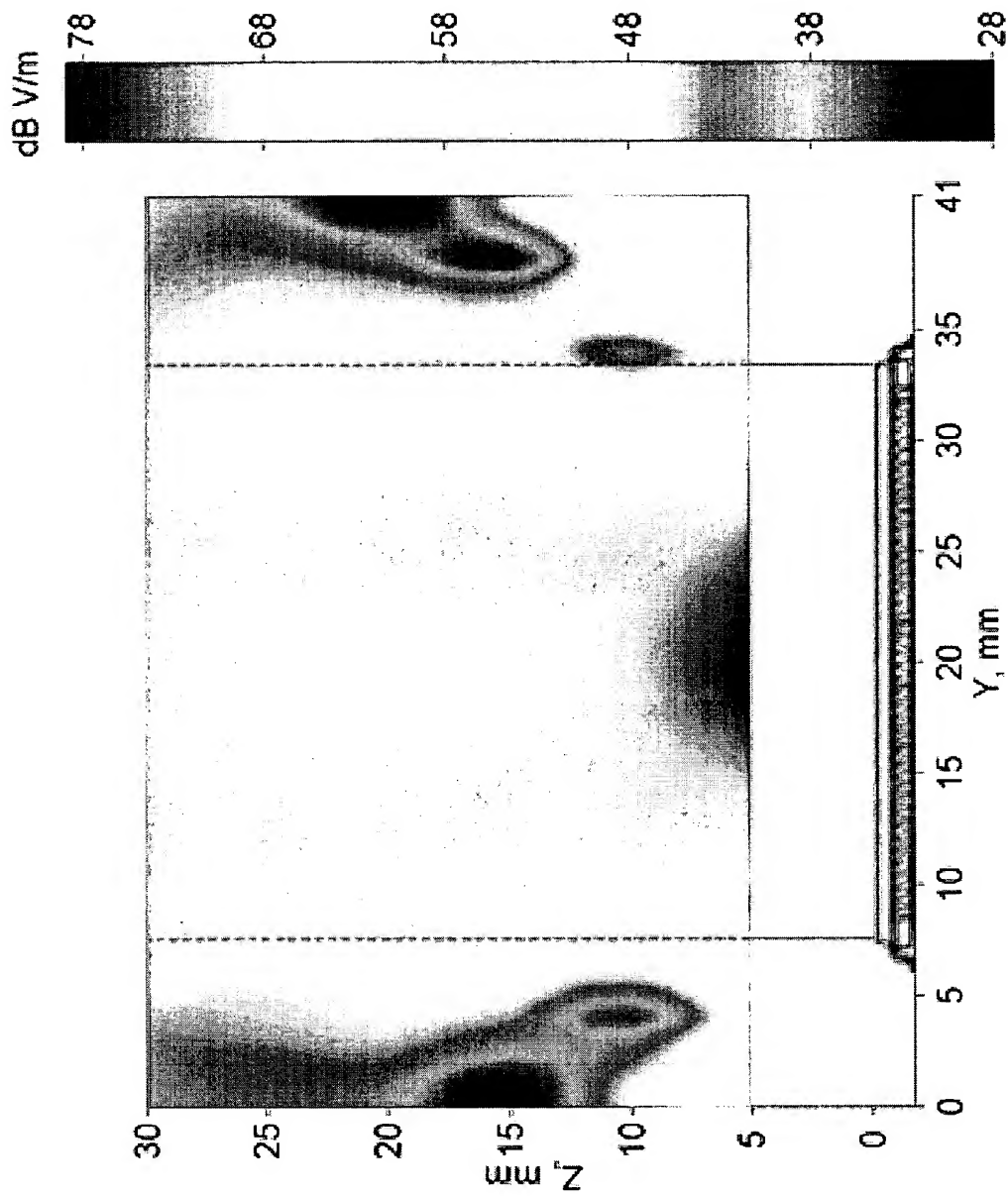


FIG. 87

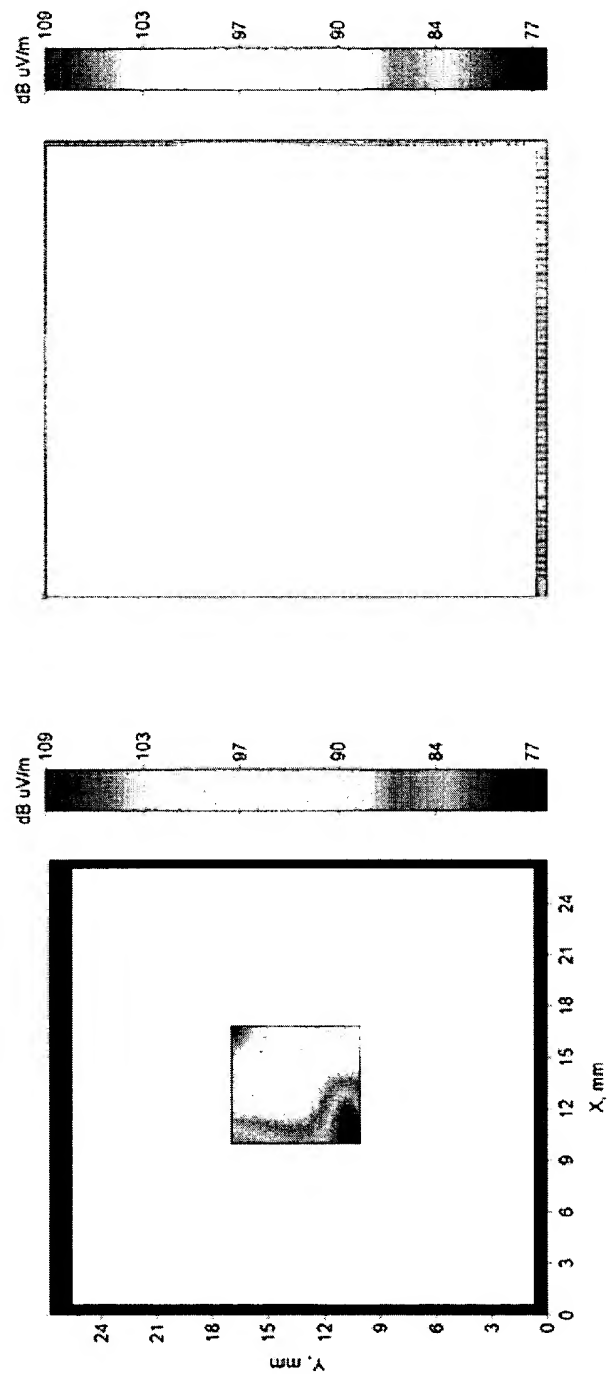


FIG. 88

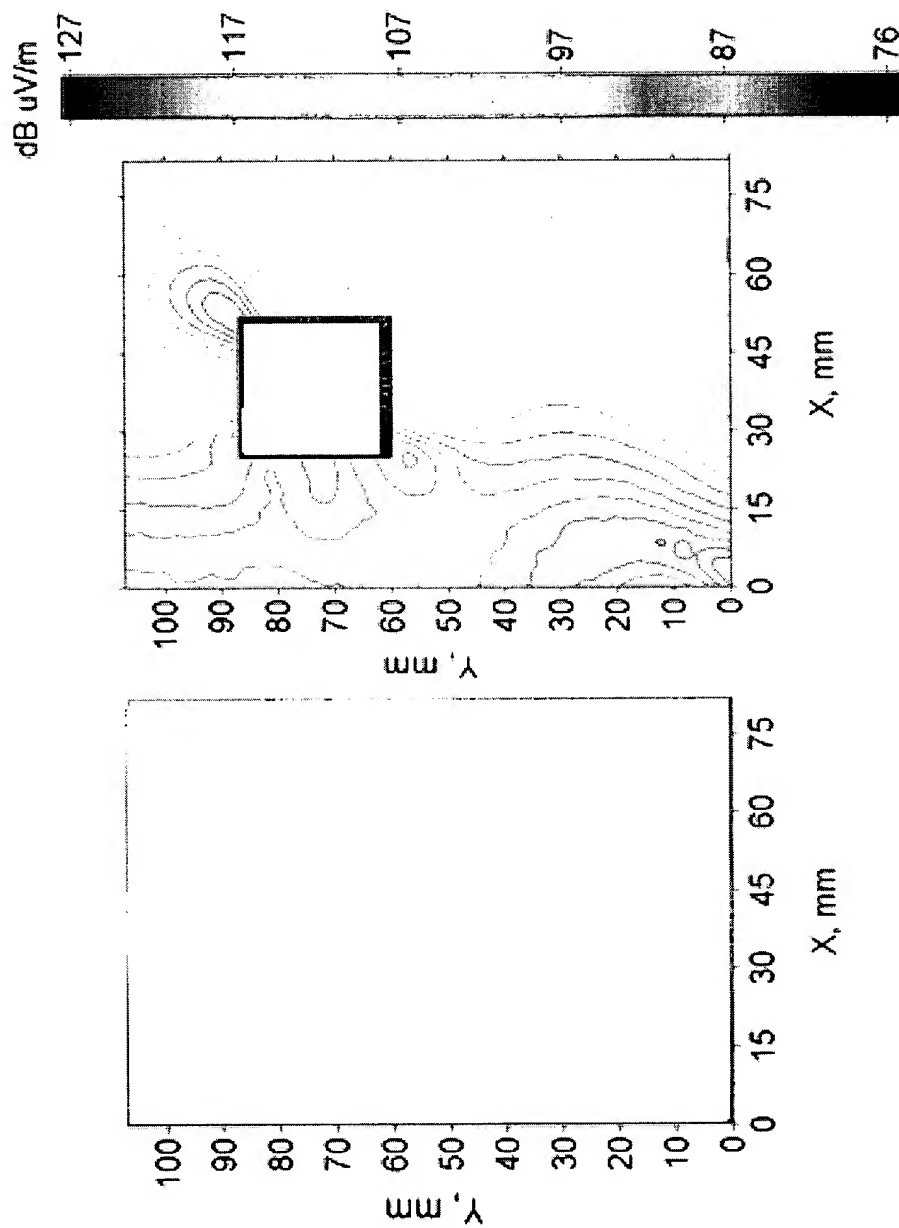
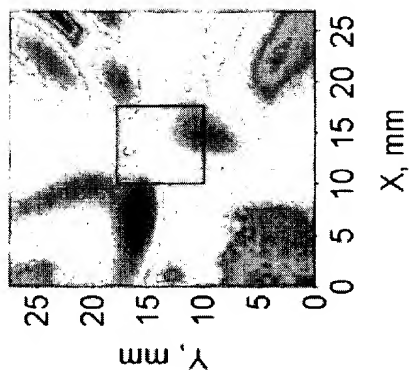
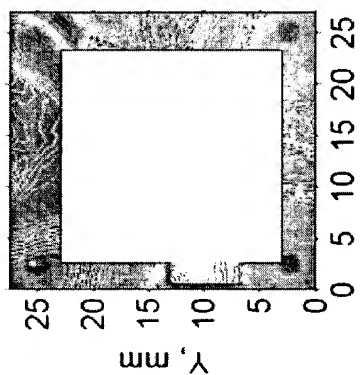


FIG. 89

dB uA/m

101
97
93
89
85
80



dB uA/m

117
107
97
87
77
67

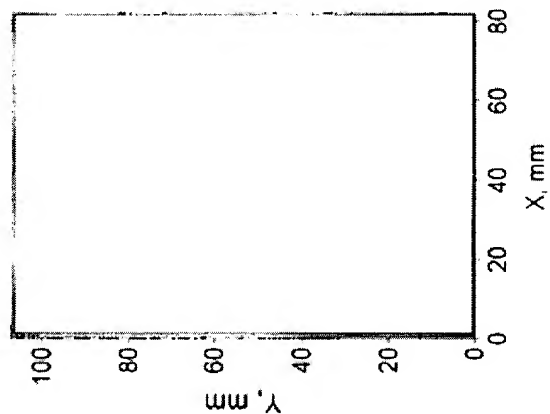
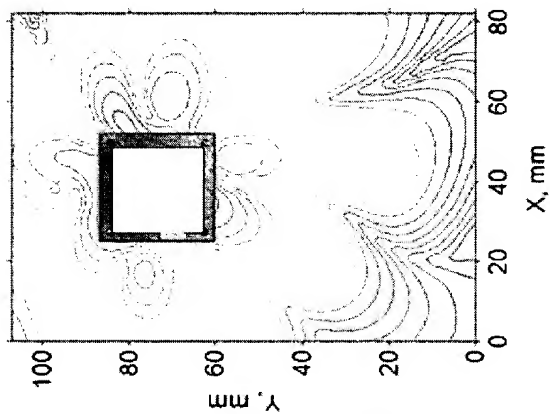
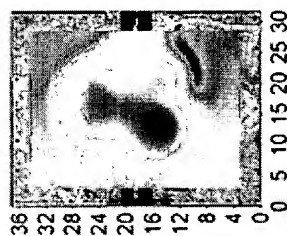
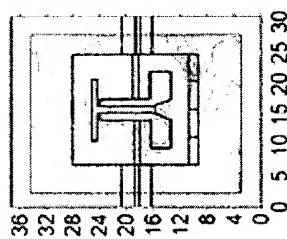


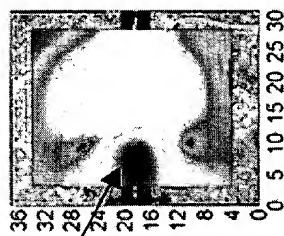
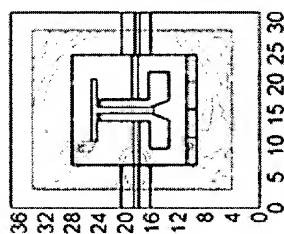
FIG. 90

dB $\mu\text{V}/\text{m}$
110
104
98
91
85
78



A: Functional Filter,
1900MHz

dB $\mu\text{V}/\text{m}$
103
95
87
79
71
62



Substrate Fracture
Area

B: Defective Filter,
1900MHz

FIG. 91

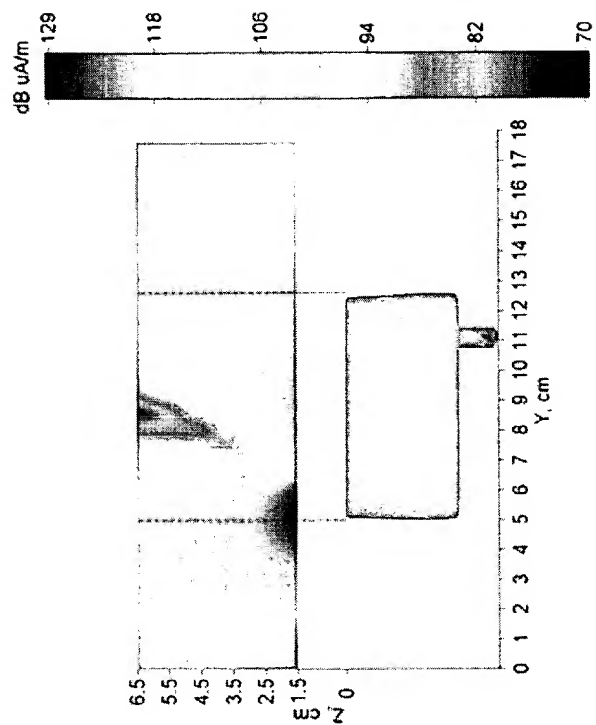
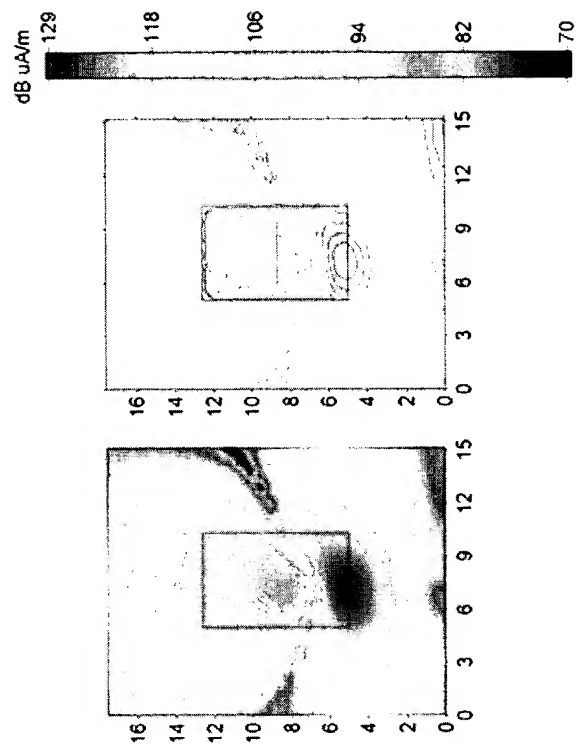


FIG. 92



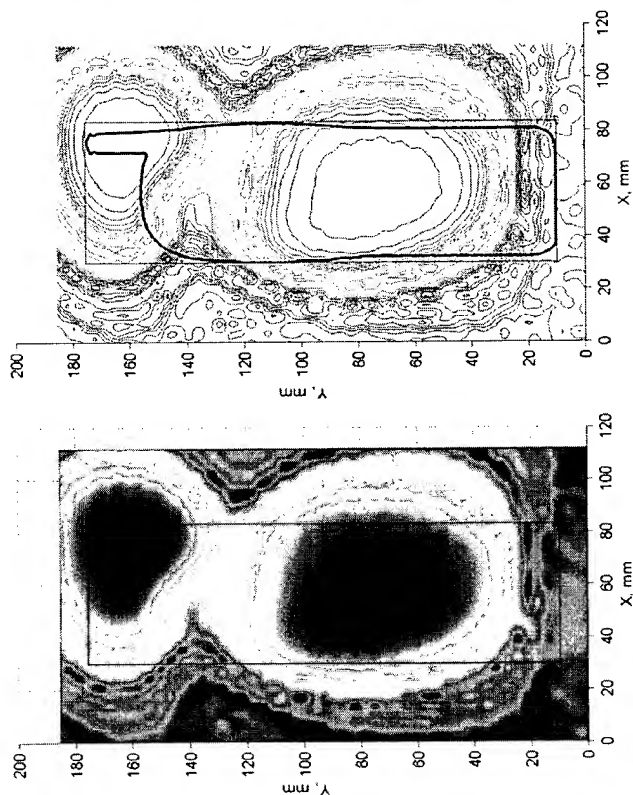
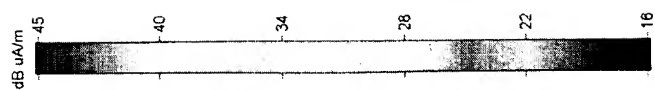
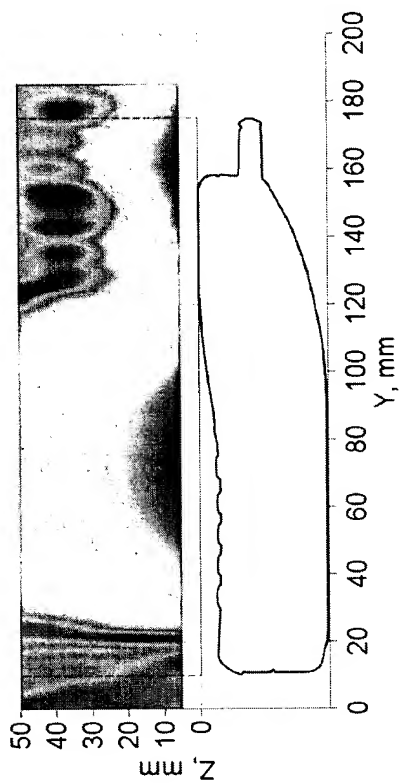
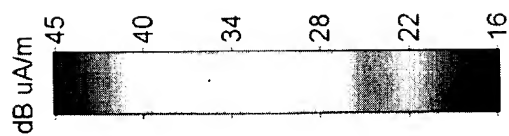


FIG. 94

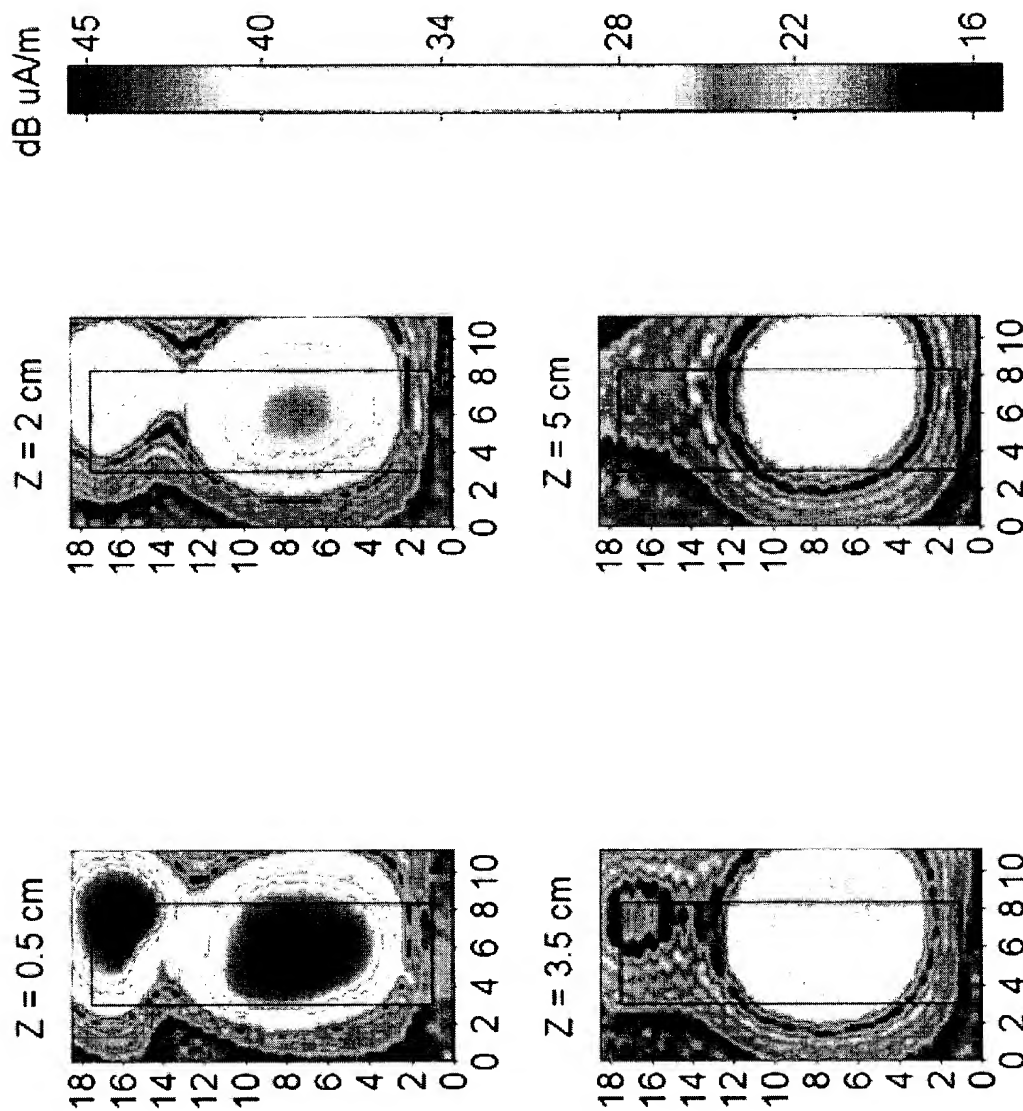


FIG. 95

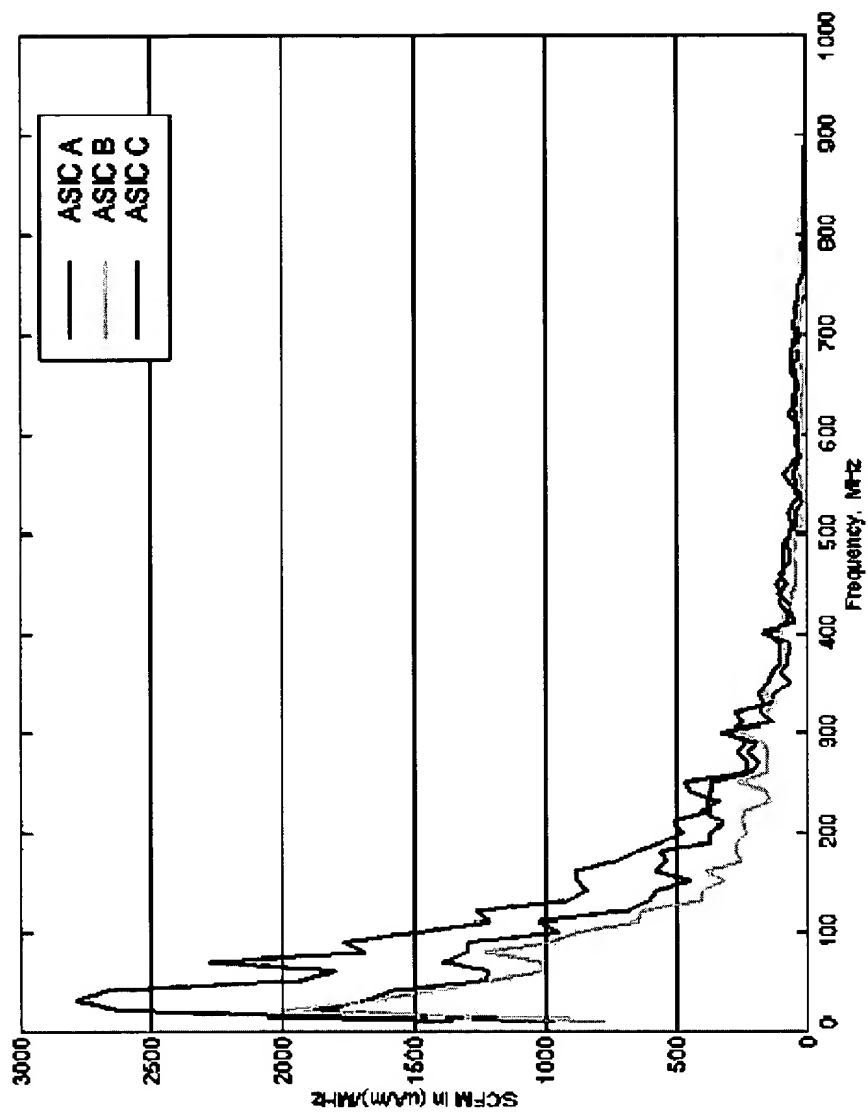
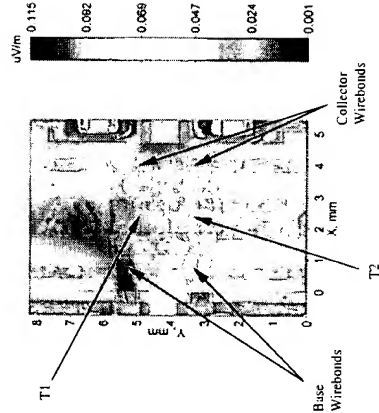
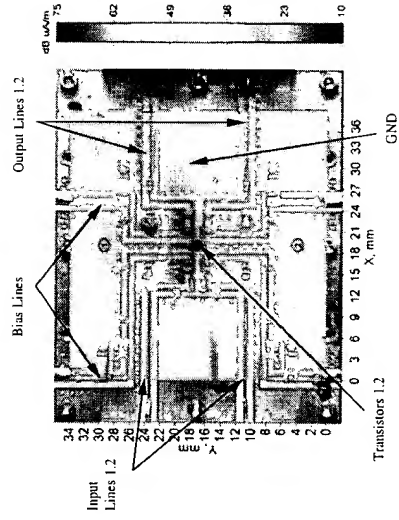


FIG. 97

FIG. 98



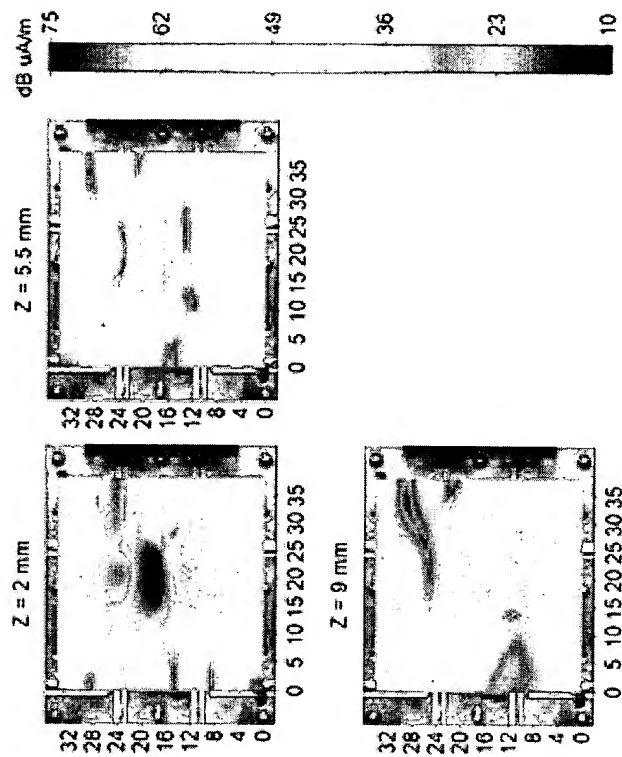


FIG. 99

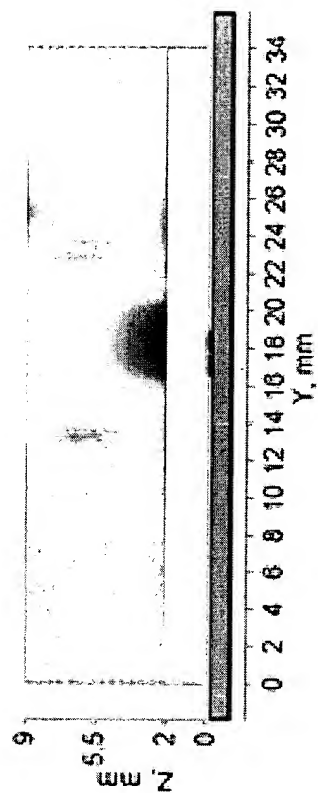


FIG. 100

